

Product/Process Change Notifications

Amphenol Commercial Products

Amphenol ICC

PCN - 22 009

www.amphenol-icc.com

Release Date: January 24 2022

Product Name:	514- MINITEK PWR3.0	
	MINITEK POWER 3.0	
Product Manager:	Jithin George	
Subject:	Notification of Change with Immediate Effectivity	
Distribution:	Affected customers	
Type of Change:	Documentation Change	
Change Description:	Standardization of Product Drawings	
Reason for Change:	Update of Drawings for Missing/ Typographical errors in Plating details, connector dimensions, PCB details, Application spec details, Soldering details and Part number logics.	
Affected Parts:	See Affected Parts.xls file	
Effective Date of Change:	January,31 2022	
Last Time Buy Date:		
Earliest Disty Return Date:		
Last Time Shipment Date		
Datasheet Attached?	Yes	
Qual/Test Data Attached?	Yes	
Samples Availability Date:	31 January ,2022	
Available Alternatives?		
Questions?	<i>Contact your local AICC Representative, or Product Manager</i>	
	<i>Jithin George / Product Manager</i>	
	<i>Jithin.George@fci.com</i>	

Note:

Customers should contact Product Line Manager (or their local Amphenol Representative) directly regarding any concern on the PCN. Lack of any such customer feedback within three weeks of PCN release date will be interpreted as non-objection .

Engineering Change Notification

Product: Minitek PWR 3.0 10161838 R/A Header



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTE:

- MATERIAL:
HOUSING: LCP, UL94V-0, COLOR: BLACK
CONTACT: COPPER ALLOY.
- CONTACT FINISH: 50u" MIN. NICKEL UNDERPLATED.
OPTIONAL PLATING ON CONTACT AREA.
- THIS PLUG MATES WITH FCI RECEPTACLE WIRE CONNECTOR 10127716.
- PRODUCT SPECIFICATION: GS-12-1177.
- PACKAGE SPECIFICATION: GS-14-2359.
- APPLICATION SPECIFICATION: GS-20-0399.
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE 10 SECONDS IN A REFLOW OVEN.
- TO AVOID INTERFERENCE BETWEEN RECEPTACLE AND PCB, HEADER MUST BE PLACED WITHIN 10.16 MAX. FROM EDGE OF PCB, AS SHOWN IN LOCATION DETAIL.
- PART NUMBER SCHEME:
10161838- XX X X X LF
POS. CODE: 02: 2 POS
04: 4 POS
24: 24 POS
OPTIONAL PACKAEGS:
BLANK: TRAY
R: TAPE AND REEL
GLOW WIRE COMPATIBLE:
G: E130I, GLOW WIRE COMPATIBLE
PLATING CODE:
1: 100u" TIN
2: GOLD FLASH
3: 15u" GOLD
4: 30u" GOLD

After Change

NOTE:

- MATERIAL:
HOUSING: LCP, UL94V-0, HALOGEN FREE, COLOR: BLACK
CONTACT: COPPER ALLOY.
METAL HARPOON: BRASS
- CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, 100u" MIN MATTE TIN ON SOLDER TAIL.
METAL HARPOON FINISH: 100u" MIN MATTE TIN OVER 50u" Min. NICKEL
- REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
- PRODUCT SPECIFICATION: GS-12-1177.
- PACKAGE SPECIFICATION: GS-14-2359.
- APPLICATION SPECIFICATION: GS-20-0399
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
- THE HOUSING WILL WITHSTAND EXPOSURE TO 235°C PEAK TEMPERATURE FOR 5 SECONDS IN A WAVE SOLDER
- LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
- TO AVOID INTERFERENCE BETWEEN RECEPTACLE AND PCB HEADER MUST BE PLACED WITHIN 10.16 MAX. FROM EDGE OF PCB, AS SHOWN IN LOCATION DETAIL.
- PART NUMBER SCHEME:
10161838- XX X X X LF
POS. CODE: 02: 2 POS
04: 4 POS
24: 24 POS
LEAD FREE
OPTIONAL PACKAEGS:
BLANK: TRAY
R: TAPE AND REEL
GLOW WIRE COMPATIBLE:
G: GLOW WIRE COMPATIBLE
PLATING CODE:
1: 100u" Min. MATTE TIN OVERALL
2: GOLD FLASH OVERALL
3: 15u" Min Au ON CONTACT AREA, 100u" Min MATTE TIN ON TAIL
4: 30u" Au ON CONTACT AREA, 100u" Min MATTE TIN ON TAIL

Description of Change:

- Halogen Free, Lead free & Wave soldering details added
- Metal harpoon material , plating thickness & Finish are added
- Missed contact plating thickness and finish added
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- Housing material grade removed, since material name provided in drawing

Implementation Date:

31st January 2022

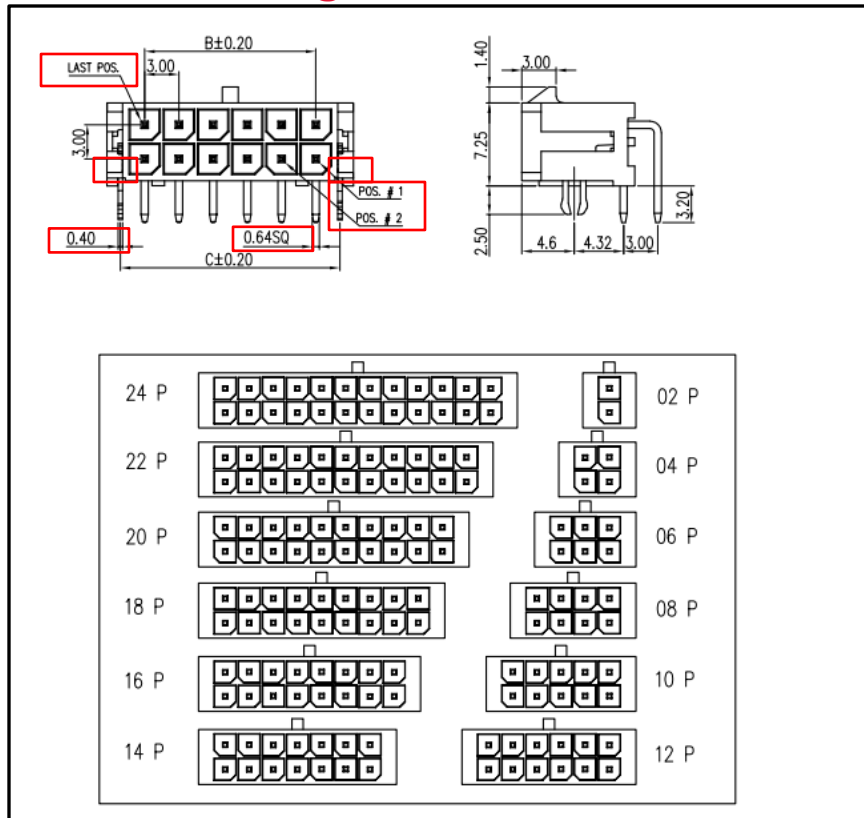
Engineering Change Notification

Product: Minitek PWR 3.0 10161838 R/A Header

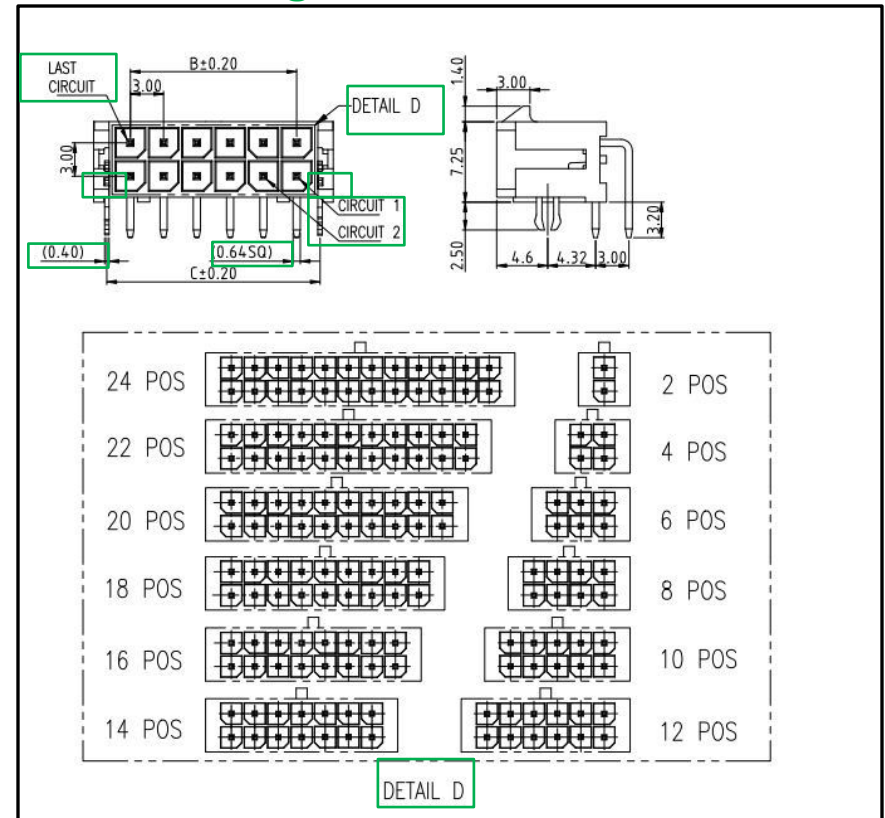


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Metal harpoon housing locking design to be modified
- Typographical errors in Dimensioning & Circuit Numbering note to be corrected
- Mating profile details view, missing note (Detail -D) to be added

Implementation Date: 31st January 2022

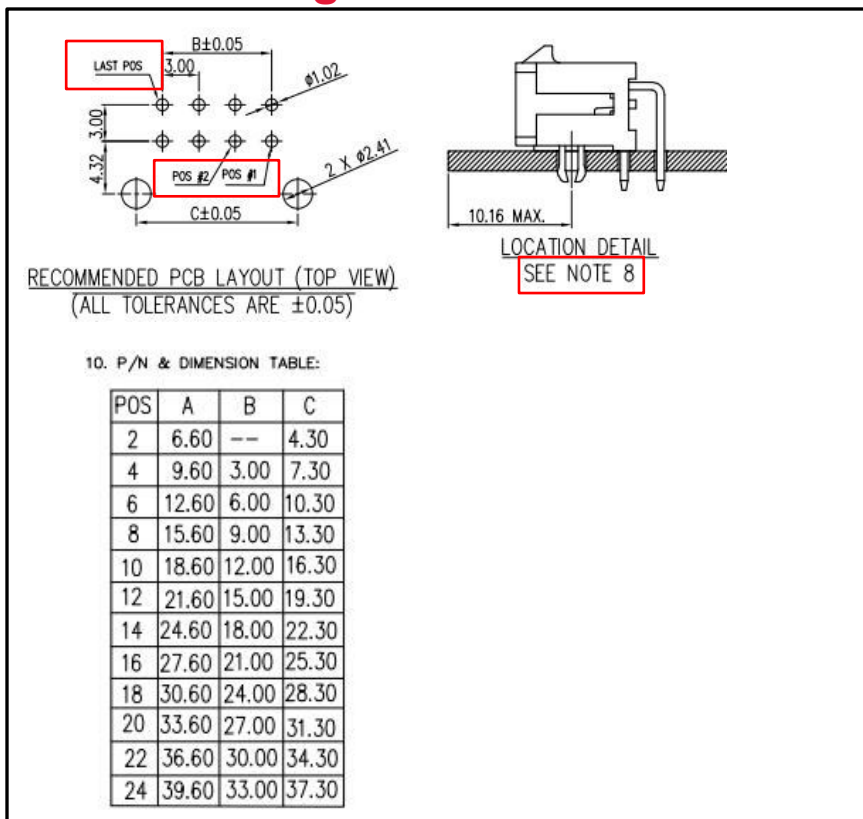
Engineering Change Notification

Product: Minitek PWR 3.0 10161838 R/A Header

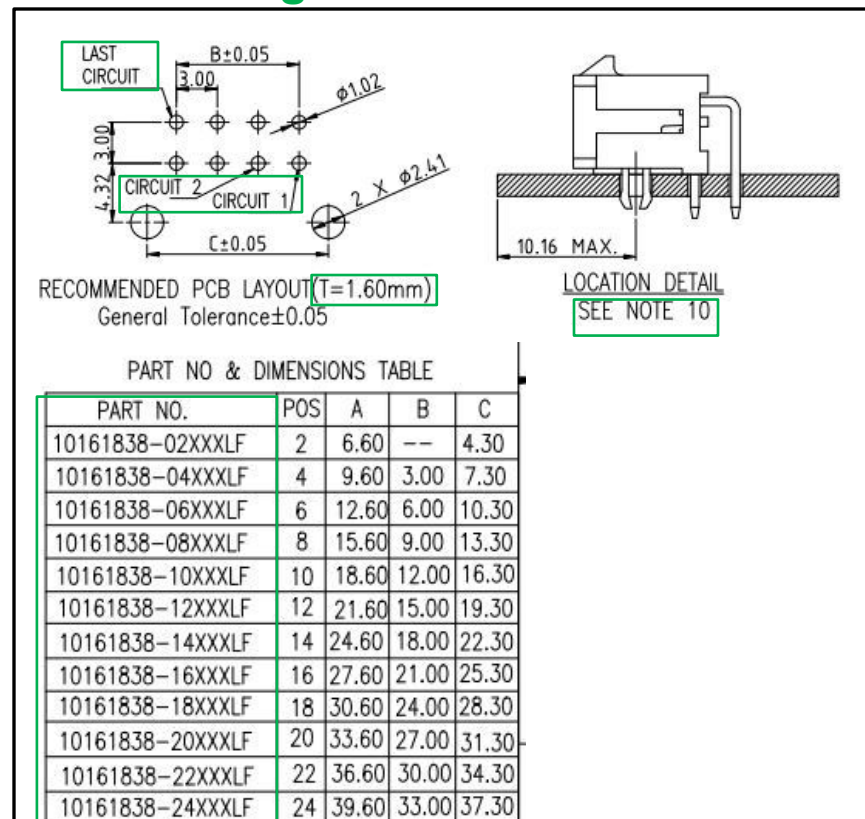


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Typographical errors in Circuit Numbering note to be corrected
- PCB thickness added
- Location details note number changed from 8 to 10
- Part number and Dimension table updated

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 10160855 BMI Plug Housing



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTES:

1. MATERIAL: NYLON 66, UL 94V-0.
2. THIS HSG IS USED WITH FCI PLUG
TERMINAL 10127719,10132448
3. THIS PLUG MATES WITH FCI RECEPTACLE 10159684
4. PRODUCT SPECIFICATION: TBD
5. PACKING SPECIFICATION: TBD
6. APPLICATION SPECIFICATION: TBD
7. PART NUMBER SCHEME:

10160855- XX X LF

POS. CODE: ———

04: 4 POS.
5

24: 24 POS.

COLOR
BLANK: BLACK

After Change

NOTE:

1. MATERIAL:
HOUSING: NYLON 66, HALOGEN FREE
UL94V-0, COLOR: BLACK
2. REFER GS-20-0399 APPLICATION SPECIFICATION
FOR MATING CONNECTOR.
3. PRODUCT SPECIFICATION: GS-12-1177.
4. PACKAGE SPECIFICATION: GS-14-2359 (BULK PACKED)
5. APPLICATION SPECIFICATION: GS-20-0399.
6. LEAD FREE PRODUCTS MEET EUROPEAN UNION
DIRECTIVES AND OTHER COUNTRY REGULATIONS AS
DESCRIBED IN GS-47-0004

7. PART NUMBER SCHEME:

10160855- XX X LF

POS. CODE: ———

04: 4 POS.
06: 6 POS.
5

24: 24 POS.

LEAD FREE

GLOW WIRE COMPATIBLE:
G: COMPATIBLE

Description of Change:

- Typographical errors In part number logic to be corrected
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- Product, Packing & Application spec number added
- LF note added

Implementation Date: 31st January 2022

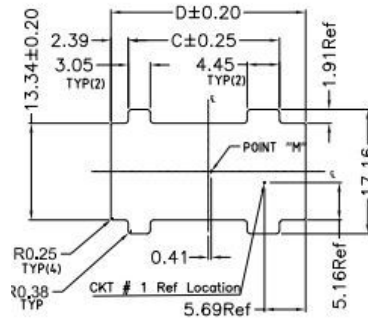
Engineering Change Notification

Product: Minitek PWR 3.0 10160855 BMI Plug Housing



Site CCB No./Global PCN No. COK-005-22

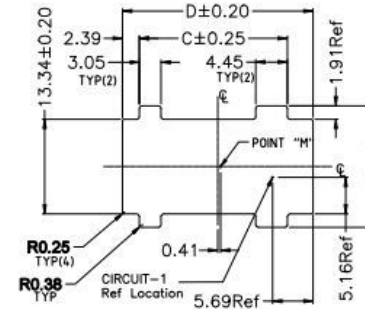
Before Change



RECOMMENDED PANEL CUT-OUT
THICK: 1.27mmMin/1.57mmMax

POSITIONS	Dimensions(mm)			
	A	B	C	D
10160855-04	20.3	3.00	14.85	20.85
10160855-06	23.3	6.00	17.85	23.85
10160855-08	26.3	9.00	20.85	26.85
10160855-10	29.3	12.00	23.85	29.85
10160855-12	32.3	15.00	26.85	32.85
10160855-14	35.3	18.00	29.85	35.85
10160855-16	38.3	21.00	32.85	38.85
10160855-18	41.3	24.00	35.85	41.85
10160855-20	44.3	27.00	38.85	44.85
10160855-22	47.3	30.00	41.85	47.85
10160855-24	50.3	33.00	44.85	50.85

After Change



RECOMMENDED PANEL CUT-OUT
THICK: 1.27mmMin/1.57mmMax

General Tolerance ±0.05

PART NUMBER	POS	Dimensions(mm)			
		A	B	C	D
10160855-04XLF	4	20.3	3.00	14.85	20.85
10160855-06XLF	6	23.3	6.00	17.85	23.85
10160855-08XLF	8	26.3	9.00	20.85	26.85
10160855-10XLF	10	29.3	12.00	23.85	29.85
10160855-12XLF	12	32.3	15.00	26.85	32.85
10160855-14XLF	14	35.3	18.00	29.85	35.85
10160855-16XLF	16	38.3	21.00	32.85	38.85
10160855-18XLF	18	41.3	24.00	35.85	41.85
10160855-20XLF	20	44.3	27.00	38.85	44.85
10160855-22XLF	22	47.3	30.00	41.85	47.85
10160855-24XLF	24	50.3	33.00	44.85	50.85

Description of Change:

- Typographical errors in part number to be corrected
- No of position details added in table
- Panel Cutout General tolerance added

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 10159684 BMI Rec Housing



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTES:

1. MATERIAL: PA66, UL 94V-0, BLACK.
2. THIS HSG IS USED WITH FCI RECEPTACLE TERMINAL TBD.
3. THIS RECEPTACLE MATES WITH FCI BMI HDR 10138980 & 10144754.
4. PRODUCT SPECIFICATION: TBD
5. PACKAGE SPECIFICATION: TBD
6. APPLICATION SPECIFICATION: TBD
7. PART NUMBER SCHEME:

10159684 - XX X LF

POS. CODE: ———

04: 4 POS.

06: 6 POS.

§
24: 24 POS.

MATERIAL

G: GLOW WIRE COMPATIBLE,

BLACK

After Change

NOTE:

1. MATERIAL:
HOUSING: NYLON 66, HALOGEN FREE
UL94V-0, COLOR: BLACK
2. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
3. PRODUCT SPECIFICATION: GS-12-1177.
4. PACKAGE SPECIFICATION: GS-14-2359 (BULK PACKED)
5. APPLICATION SPECIFICATION: GS-20-0399.
6. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
7. PART NUMBER SCHEME:

10159684- XX X LF

POS. CODE: ———

04: 4 POS.

06: 6 POS.

§
24: 24 POS.

LEAD FREE

— GLOW WIRE COMPATIBLE:
G: COMPATIBLE

Description of Change:

- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- Product, Packing & Application spec number added
- LF & Halogen free note added
- Color removed from part number logic and added in notes

Implementation Date: 31st January 2022

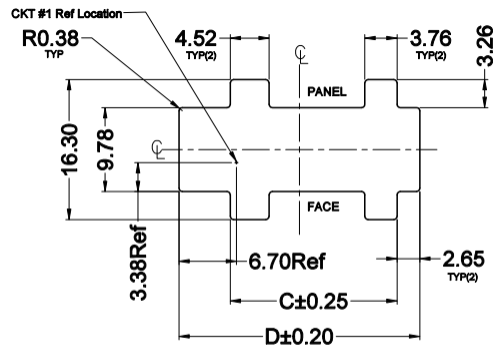
Engineering Change Notification

Product: Minitek PWR 3.0 10159684 BMI Rec Housing



Site CCB No./Global PCN No. COK-005-22

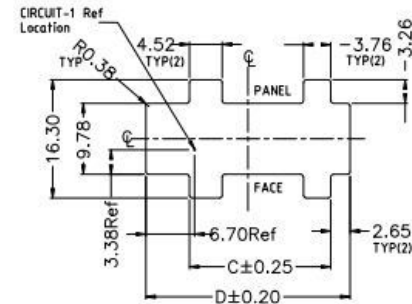
Before Change



RECOMMENDED PANEL CUT-OUT
THICK:1.27mmMin / 1.57mmMax

Poles	Dimensions(mm)				Poles	Dimensions(mm)			
	A	B	C	D		A	B	C	D
2					14	39.8	18.00	28.46	37.10
4	24.6	3.00	13.46	22.10	16	42.8	21.00	31.46	40.10
6	27.7	6.00	16.46	25.10	18	45.8	24.00	34.46	43.10
8	30.7	9.00	19.46	28.10	20	48.8	27.00	37.46	46.10
10	33.8	12.00	22.46	31.10	22	51.8	30.00	40.46	49.10
12	36.8	15.00	25.46	34.10	24	54.8	33.00	43.46	52.10

After Change



RECOMMENDED PANEL CUT-OUT
THICK:1.27mmMin/1.57mmMax
General Tolerance±0.05

PART NUMBER	POS	Dimensions(mm)			
		A	B	C	D
10159684-04XLF	4	24.6	3.00	13.46	22.10
10159684-06XLF	6	27.7	6.00	16.46	25.10
10159684-08XLF	8	30.7	9.00	19.46	28.10
10159684-10XLF	10	33.8	12.00	22.46	31.10
10159684-12XLF	12	36.8	15.00	25.46	34.10
10159684-14XLF	14	39.8	18.00	28.46	37.10
10159684-16XLF	16	42.8	21.00	31.46	40.10
10159684-18XLF	18	45.8	24.00	34.46	43.10
10159684-20XLF	20	48.8	27.00	37.46	46.10
10159684-22XLF	22	51.8	30.00	40.46	49.10
10159684-24XLF	24	54.8	33.00	43.46	52.10

Description of Change: ➤ Part number added in table
➤ Panel Cutout General tolerance added

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 HCC 10148440 R/A SMT Header



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTE:

1. MATERIAL:
HOUSING: PA9T, UL94V-0, COLOR: BLACK
CONTACT: HIGH CONDUCTIVITY COPPER ALLOY.
2. CONTACT FINISH: NICKEL UNDERPLATED, OPTIONAL PLATING ON CONTACT AREA & SOLDER TAIL.
3. THIS PLUG MATES WITH FCI RECEPTACLE WIRE CONNECTOR 10132445.
4. PRODUCT SPECIFICATION: GS-12-1291.
5. PACKAGE SPECIFICATION: GS-14-2419.
6. THE HOUSING WILL WITHSTAND EXPOSURE TO 260 °C PEAK TEMPERATURE FOR 5 SECONDS IN A REFLOW OVEN.
7. PART NUMBER SCHEME:
10148440- XX X X X X 0 LF

POS. CODE:
02: 2 POS
04: 4 POS
24: 24 POS

PACKAGE:
R: TAPE & REEL

PLATING CODE:
1: GOLD FLASH
2: TIN

HSG MATERIAL:
G: PA9T (GLOW WIRE COMPATIBLE)
HSG COLOR:
1: BLACK

After Change

NOTE:

1. MATERIAL:
HOUSING: HIGH TEMP. NYLON, UL94V-0, HALOGEN FREE, COLOR: OPTIONAL
CONTACT: HIGH CONDUCTIVITY COPPER ALLOY.
METAL HARPOON: BRASS
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, 100u" MIN MATTE TIN ON SOLDER TAIL.
METAL HARPOON FINISH: 60u" MIN MATTE TIN OVER 50u" Min. NICKEL
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
4. TO MINIMIZE THE INSERTION FORCE OF MOUNTING CLIP DURING ROBOTIC PLACEMENT THE PCB HOLE DIAMETER SHOULD BE INCREASED TO 2.74±0.05mm
5. PRODUCT SPECIFICATION: GS-12-1291.
6. PACKAGE SPECIFICATION: GS-14-2419.
7. APPLICATION SPECIFICATION: GS-20-0399
8. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
9. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
10. PART NUMBER SCHEME:
10148440- XX X X X X 0 LF

POS. CODE:
02: 2 POS
04: 4 POS
24: 24 POS

LEAD FREE

PACKAGE:
R: TAPE & REEL

HSG MATERIAL:
G: HIGH TEMP. NYLON (GLOW WIRE COMPATIBLE)

HSG COLOR:
1: BLACK

PLATING CODE:
1: GOLD FLASH ON CONTACT AREA, 100u"Min MATTE TIN ON TAIL
2: 100u" Min. MATTE TIN OVERALL

Description of Change:

- Material description changed to high temp. Nylon and color removed from notes, since it is shown in part number logic
- LF & Halogen free note added
- Metal harpoon material, plating thickness & Finish are added
- Missed contact plating thickness and finish added
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- Application spec details and Note-4 added
- Reflow Spec updated

Implementation Date: 31st January 2022

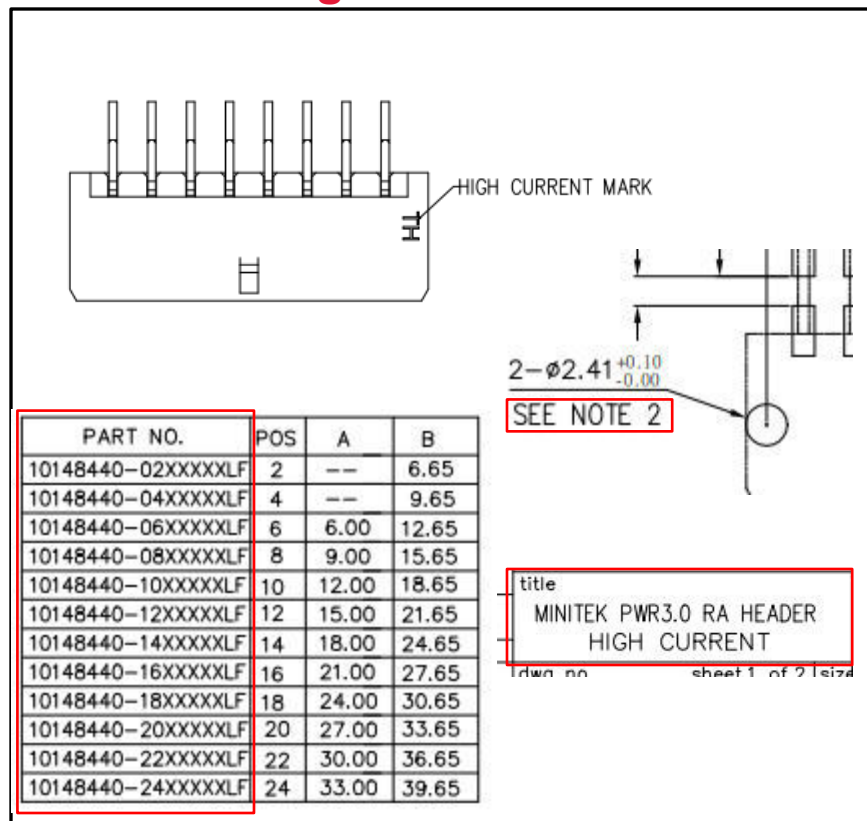
Engineering Change Notification

Product: Minitek PWR 3.0 HCC 10148440 R/A SMT Header

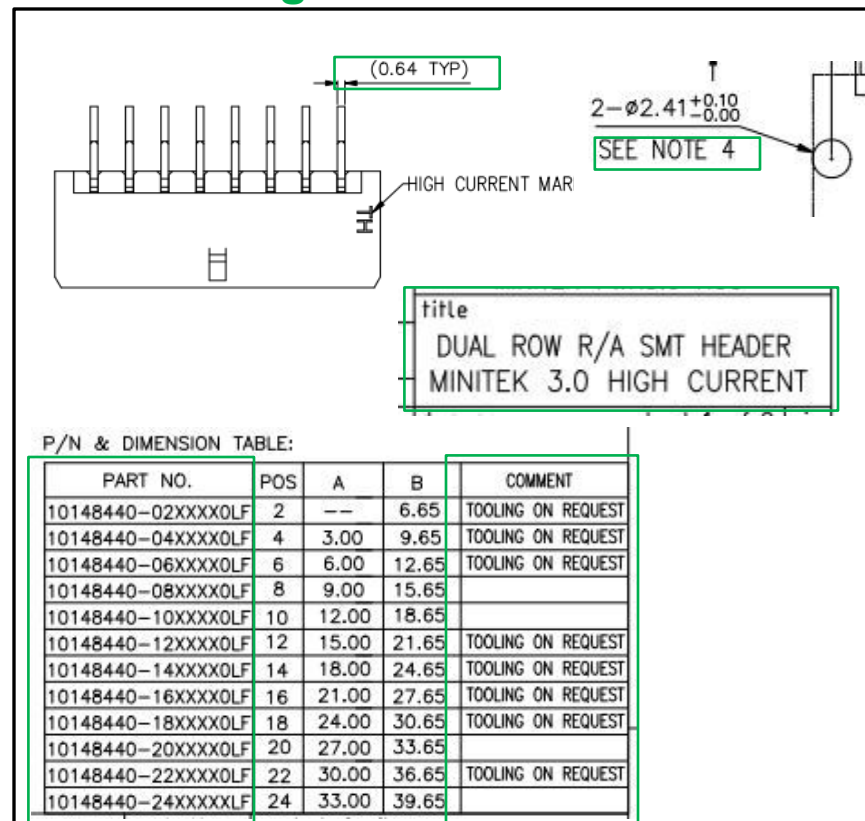
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Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Contact size added
- Harpoon hole note updated
- Drawing description updated
- Part number in table corrected and tooling status updated in table, since some positions are not tooled up

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 HCC 10148439 VT SMT Header



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTE:

- MATERIAL:
HOUSING: PA9T UL94V-0, COLOR: BLACK
CONTACT: HIGH CONDUCTIVITY COPPER ALLOY.
- CONTACT FINISH: NICKEL UNDERPLATED, OPTIONAL PLATING ON CONTACT AREA & SOLDER TAIL.
- THIS PLUG MATES WITH FCI RECEPTACLE WIRE CONNECTOR 10132445.
- PRODUCT SPECIFICATION: GS-12-1291.
- PACKAGE SPECIFICATION: GS-14-2419.
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260 °C PEAK TEMPERATURE FOR 5 SECONDS IN A REFLOW OVEN.
- PART NUMBER SCHEME:
10148439- XX X X X X 0 LF

POS. CODE:
02: 2 POS
04: 4 POS
24: 24 POS

PACKAGE:
R: TAPE & REEL

HSG MATERIAL:
G: PA9T (GLOW WIRE COMPATIBLE)

HSG COLOR:
1: BLACK

PLATING CODE:
1: GOLD FLASH
2: TIN

After Change

NOTE:

- MATERIAL:
HOUSING: HIGH TEMP. NYLON, UL94V-0, HALOGEN FREE, COLOR: OPTIONAL
CONTACT: HIGH CONDUCTIVITY COPPER ALLOY.
METAL HARPOON: BRASS
- CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, 100u" MIN MATTE TIN ON SOLDER TAIL.
METAL HARPOON FINISH: 60u" MIN MATTE TIN OVER 50u" Min. NICKEL
- REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
- TO MINIMIZE THE INSERTION FORCE OF MOUNTING CLIP DURING ROBOTIC PLACEMENT THE PCB HOLE DIAMETER SHOULD BE INCREASED TO 2.74±0.05mm
- PRODUCT SPECIFICATION: GS-12-1291.
- PACKAGE SPECIFICATION: GS-14-2419.
- APPLICATION SPECIFICATION: GS-20-0399
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
- LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
- PART NUMBER SCHEME:
10148439- XX X X X X 0 LF

POS. CODE:
02: 2 POS
04: 4 POS
24: 24 POS

PACKAGE:
R: TAPE & REEL WITH PICKUP CAP

HSG MATERIAL:
G: HIGH TEMP. NYLON (GLOW WIRE COMPATIBLE)

HSG COLOR:
1: BLACK

PLATING CODE:
1: GOLD FLASH ON CONTACT AREA, 100u" Min. MATTE TIN ON TAIL
2: 100u" Min. MATTE TIN OVERALL

Description of Change:

- Material description changed to high temp. Nylon and color removed from notes, since it is shown in part number logic
- LF & Halogen free note added
- Metal harpoon material, plating thickness & Finish are added
- Missed contact plating thickness and finish added
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- Application spec details and Note-4 added
- Reflow spec updated

Implementation Date:

31st January 2022

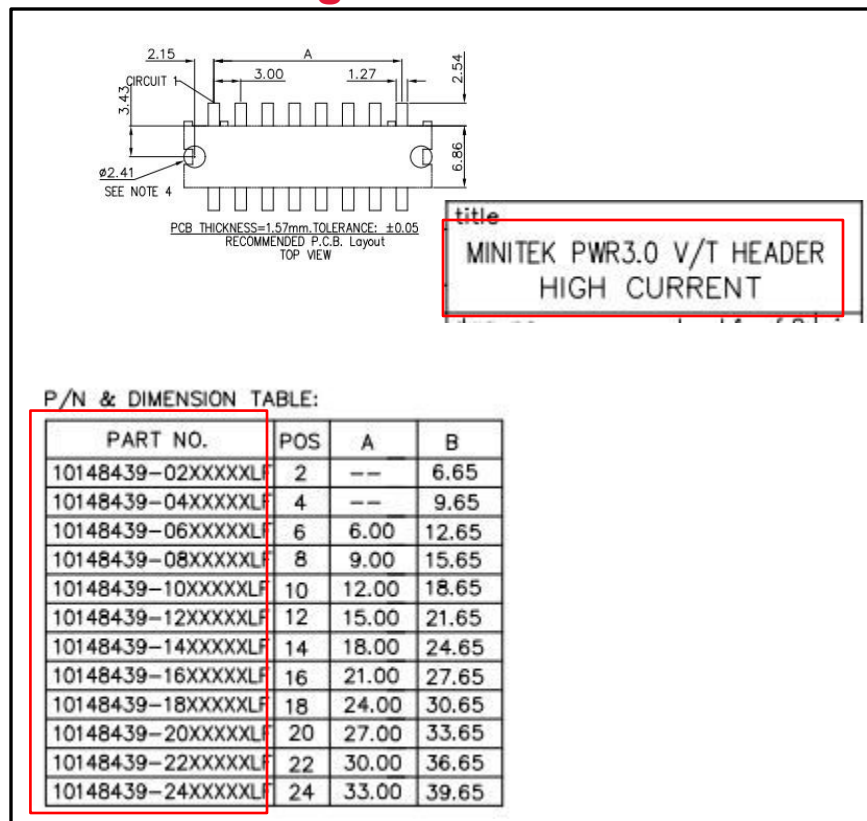
Engineering Change Notification

Product: Minitek PWR 3.0 HCC 10148439 VT SMT Header

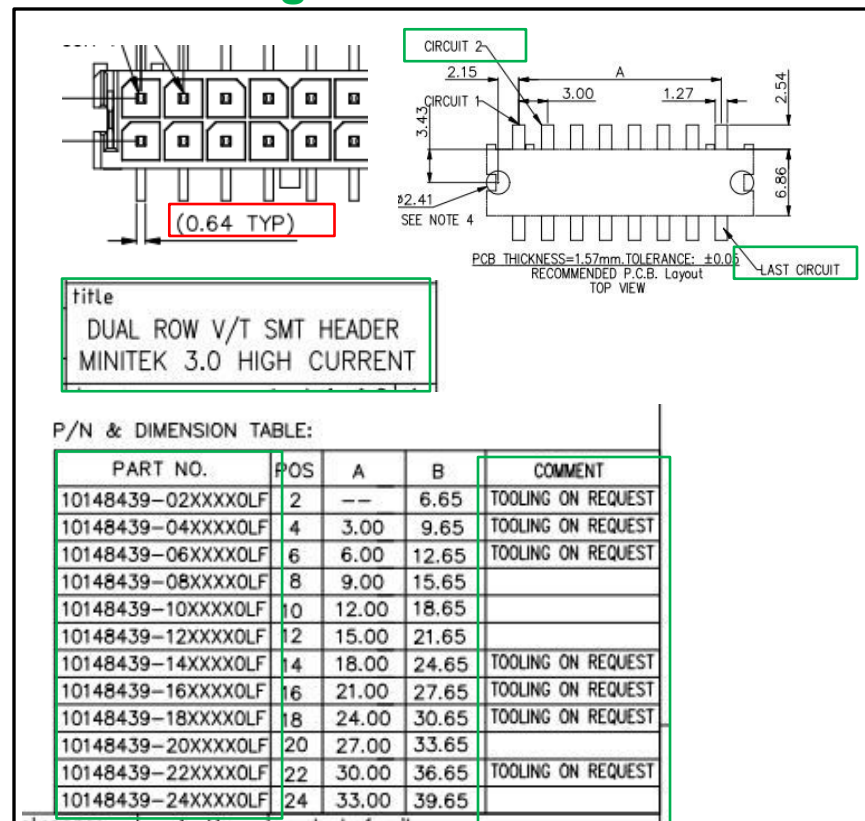


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Contact size added
- Circuit number details added in PCB layout
- Drawing description updated
- Part number in table corrected and tooling status updated, since some positions are not tooled up

Implementation Date: 31st January 2022

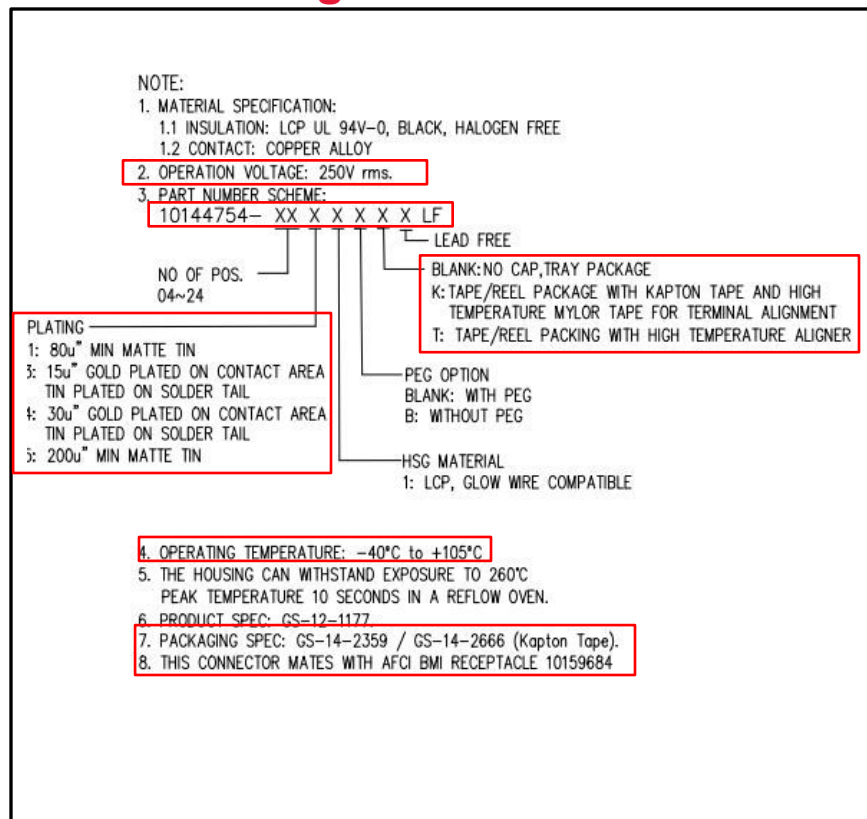
Engineering Change Notification

Product: Minitek PWR 3.0 10144754 R/A BMI Header

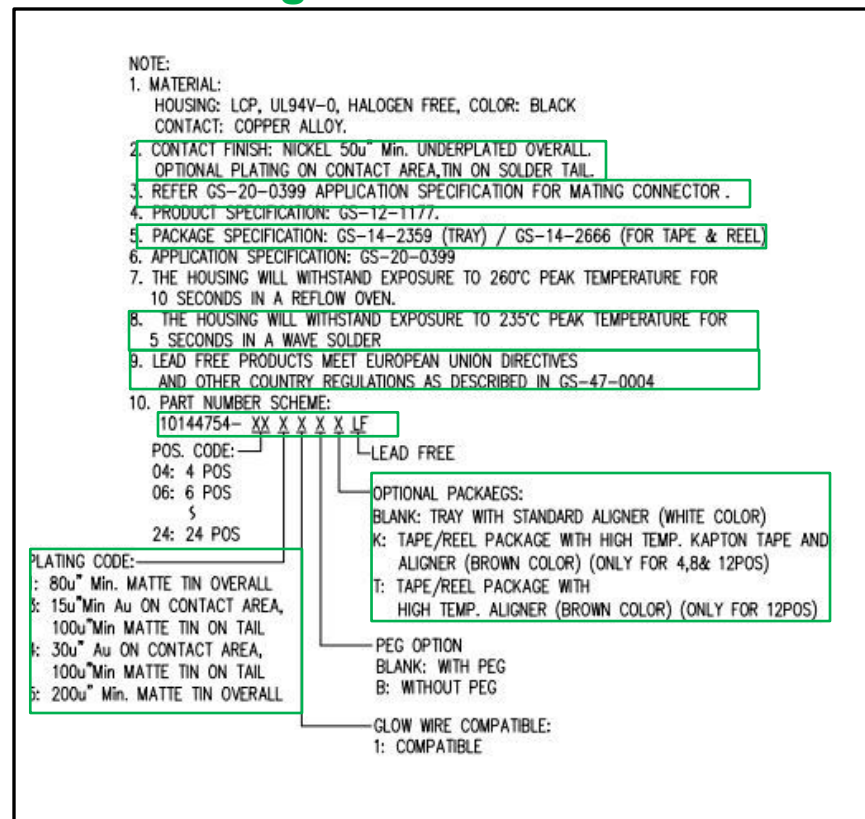


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Operation voltage and Temperature details removed from drawing, since it is shown in product spec
- Part number logic corrected
- Missing plating finish & thickness details added
- Packaging details updated since Tape & reel tooled up only for few positions
- LF note & Wave soldering details added

Implementation Date:

31st January 2022

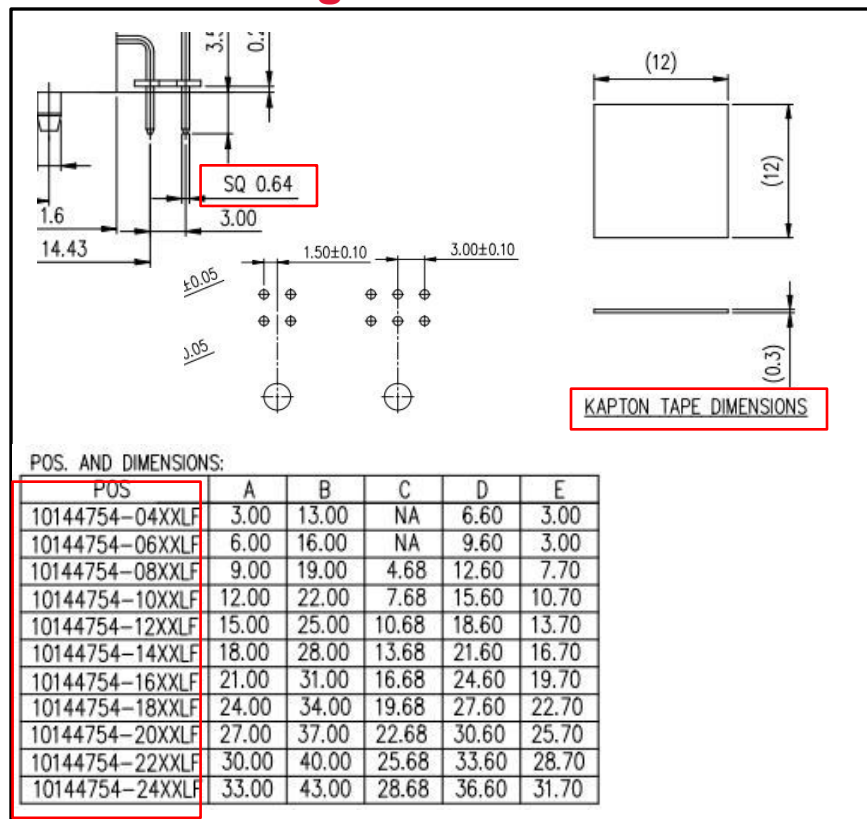
Engineering Change Notification

Product: Minitek PWR 3.0 10144754 R/A BMI Header

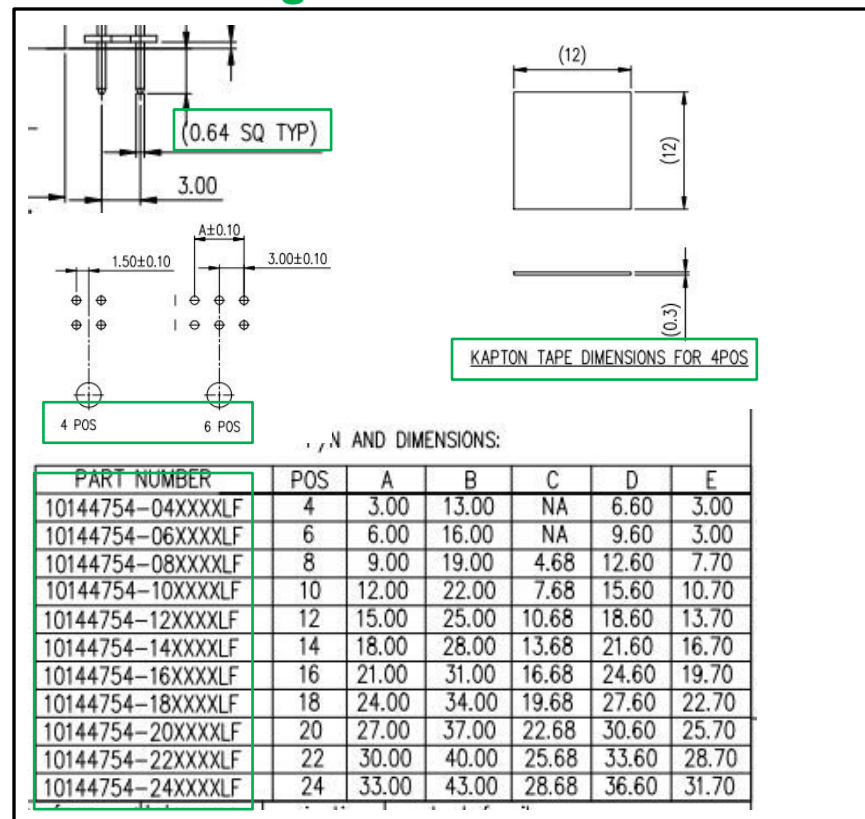


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Contact size shown as ref dimensions
- PCB layout description added
- Kapton tape description updated
- Part number corrected in table

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 HCC 10142744 S/R Rec Housing



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTES:

1. MATERIAL: HIGH TEMP. THERMOPLASTIC, UL 94V-0, BLACK.
2. THIS HSG IS USED WITH FCI RECEPTACLE TERMINAL 10132447.
3. THIS RECEPTACLE MATES WITH FCI PLUG 10142730.
4. PRODUCT SPECIFICATION: GS-12-1291.
5. PACKAGE SPECIFICATION: GS-14-2419.
6. PART NUMBER SCHEME: 10142744-XX LF

title
MINITEK PWR3.0 REC. HSG
HIGH CURRENT

DIMENSIONAL & PART NO. TABLE:

PART NO.	POS	A	B
10142744-02LF	2	6.85	
10142744-03LF	3	9.85	
10142744-04LF	4	12.85	
10142744-05LF	5	15.85	
10142744-06LF	6	18.85	
10142744-07LF	7	21.85	
10142744-08LF	8	24.85	
10142744-09LF	9	27.85	
10142744-10LF	10	30.85	
10142744-11LF	11	33.85	
10142744-12LF	12	36.85	

POS. CODE:
02: 2 POS.
03: 3 POS.
S
12: 12 POS.

After Change

NOTE:

1. MATERIAL: HOUSING: HIGH TEMP. NYLON, HALOGEN FREE, UL94V-0, COLOR: BLACK
2. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR
3. PRODUCT SPECIFICATION: GS-12-1291
4. PACKAGE SPECIFICATION: GS-14-2419 (BULK PACKED)
5. APPLICATION SPECIFICATION: GS-20-0399
6. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
7. PART NUMBER SCHEME: 10142744-XX LF

title
MINITEK PWR3.0 REC. HSG
S/R HIGH CURRENT

DIMENSIONAL & PART NO. TABLE:

PART NO.	POS	A	B
10142744-02LF	2	6.85	
10142744-03LF	3	9.85	
10142744-04LF	4	12.85	
10142744-05LF	5	15.85	
10142744-06LF	6	18.85	

POS. CODE:
02: 2 POS.
03: 3 POS.
S
06: 6 POS.

LAST CIRCUIT

Description of Change:

- Housing material description & drawing description updated
- Missing circuit numbering added
- Isometric view, LF & Halogen free note added
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- Application spec & Packing method details added

Implementation Date:

31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 HCC 10142730 S/R R/A Header



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTE:

1. MATERIAL:
HOUSING: PA9T, UL94V-0, COLOR: BLACK
CONTACT: HIGH CONDUCTIVITY COPPER ALLOY.
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA & SOLDER TAIL.
3. THIS PLUG MATES WITH FCI RECEPTACLE WIRE CONNECTOR 10142744.
4. PRODUCT SPECIFICATION: GS-12-1291..
5. THE PART IS APPLICABLE FOR PIP PROCESS AND WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 5 SECONDS IN A CONVENTION REFLOW OVEN.
7. PART NUMBER SCHEME:
10142730- XX X X X X LF

POS CODE:
02: 2 POS
03: 3 POS
12: 12 POS

PACKAGE:
T: TRAY
R: TAPE & REEL

HSG MATERIAL:
G: PA9T

PLATING CODE:
1: GOLD FLASH
2: MATTE TIN

HSG COLOR:
1: BLACK

After Change

NOTE:

1. MATERIAL:
HOUSING: HIGH TEMP. NYLON, UL94V-0, HALOGEN FREE, COLOR: OPTIONAL
CONTACT: HIGH CONDUCTIVITY COPPER ALLOY.
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, 100u" MIN MATTE TIN ON SOLDER TAIL.
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
4. PRODUCT SPECIFICATION: GS-12-1291.
5. PACKAGE SPECIFICATION: GS-14-2419.
6. APPLICATION SPECIFICATION: GS-20-0399
7. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
8. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
9. PART NUMBER SCHEME:
10142730- XX X X X X LF

POS CODE:
02: 2 POS
03: 3 POS
12: 12 POS

PACKAGE:
R: TAPE & REEL

HSG MATERIAL:
G: HIGH TEMP NYLON

PLATING CODE:
1: GOLD FLASH OVERALL
2: 100u" Min. MATTE TIN OVERALL
4: 30u" Min GOLD ON CONTACT AREA, 100u" Min MATTE TIN ON TAIL

HSG COLOR:
1: BLACK

Description of Change:

- Material description changed to high temp. Nylon and color removed from notes, since it is shown in part number logic
- LF & Halogen free note added
- Used with mating connector part number details removed from drawing, since it is mentioned in application spec.
- Application spec & Packing Spec details added.
- Sheet no 3& 4 removed, since the packing details shown in packing spec.
- Tray packing option removed, since it will not suitable for reflow application
- Missing plating finish & thickness details added
- Reflow Spec updated

Implementation Date:

31st January 2022

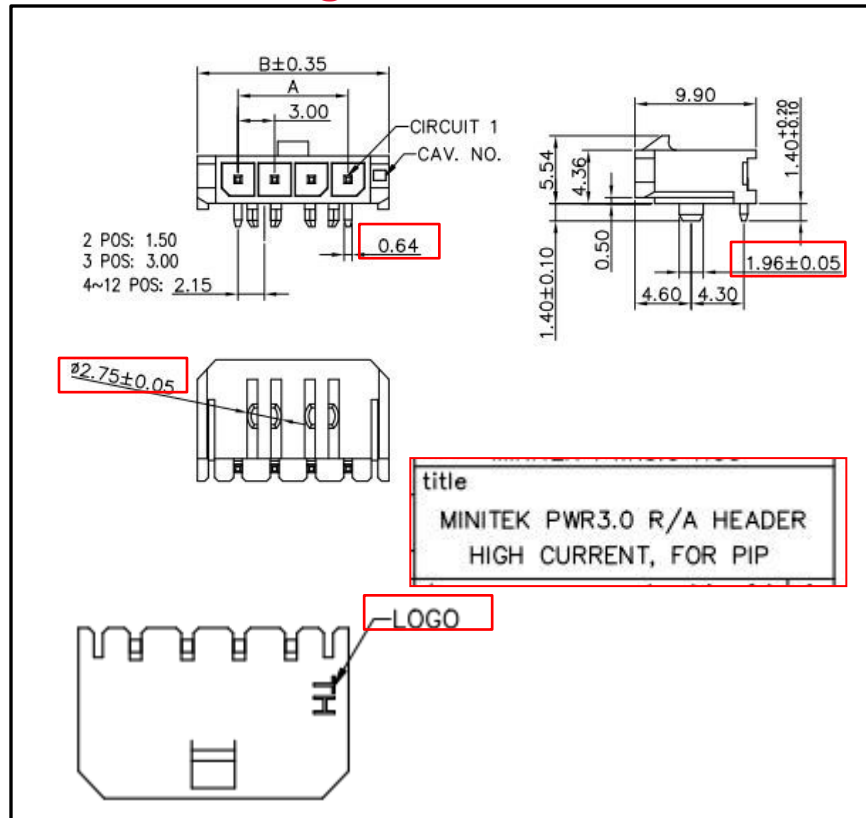
Engineering Change Notification

Product: Minitek PWR 3.0 HCC 10142730 S/R R/A Header

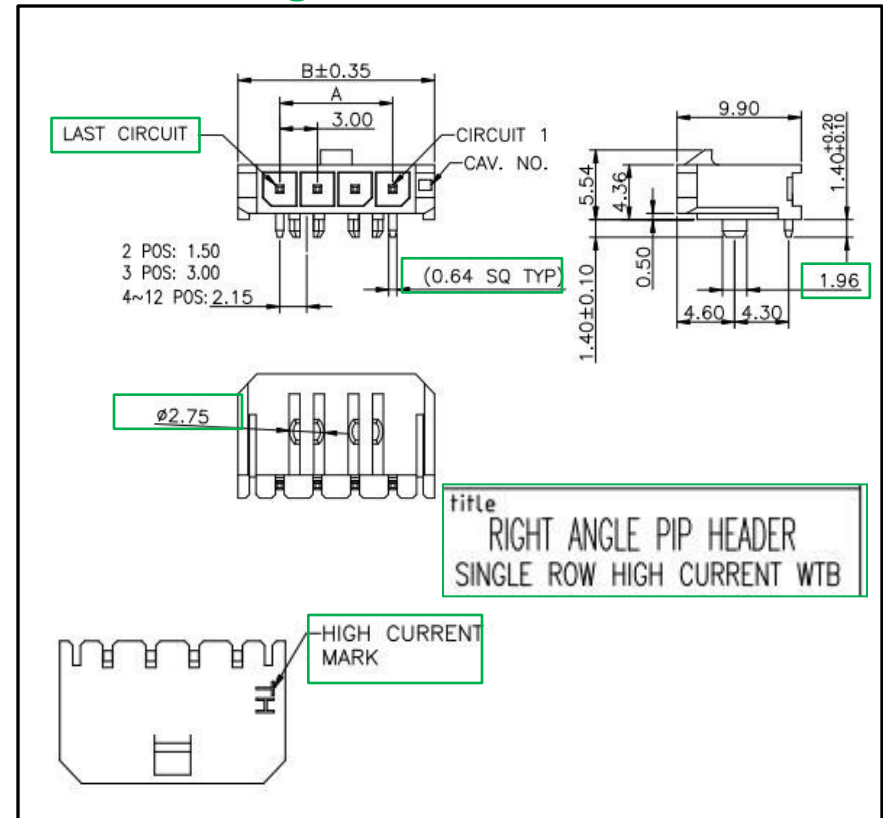


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Typographical errors in Dimensioning to be corrected
- Drawing description updated
- High current marking added

Implementation Date: 31st January 2022

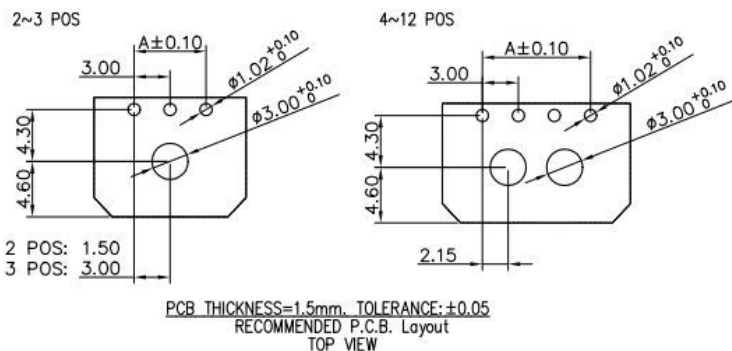
Engineering Change Notification

Product: Minitek PWR 3.0 HCC 10142730 S/R R/A Header



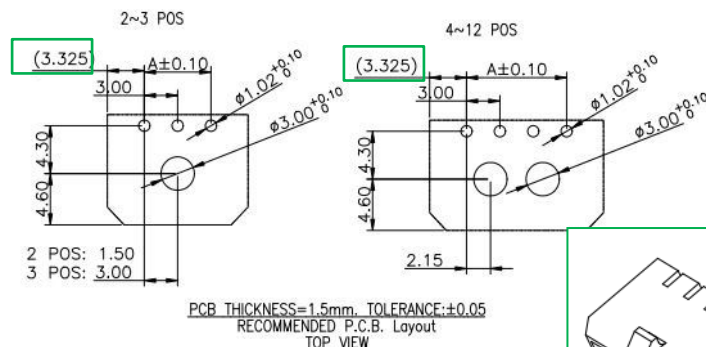
Site CCB No./Global PCN No. COK-005-22

Before Change



POS	A	B	POS	A	B
2	--	9.65	8	21.00	27.65
3	6.00	12.65	9	24.00	30.65
4	9.00	15.65	10	27.00	33.65
5	12.00	18.65	11	30.00	36.65
6	15.00	21.65	12	33.00	39.65
7	18.00	24.65			

After Change



PART NUMBER	POS	A	B	COMMENT
10142730-02XXXXLF	2	--	9.65	
10142730-03XXXXLF	3	6.00	12.65	
10142730-04XXXXLF	4	9.00	15.65	
10142730-05XXXXLF	5	12.00	18.65	
10142730-06XXXXLF	6	15.00	21.65	
10142730-07XXXXLF	7	18.00	24.65	
10142730-08XXXXLF	8	21.00	27.65	TOOLING ON REQUEST
10142730-09XXXXLF	9	24.00	30.65	
10142730-10XXXXLF	10	27.00	33.65	
10142730-11XXXXLF	11	30.00	36.65	
10142730-12XXXXLF	12	33.00	39.65	

Description of Change:

- Missing dimensions & Isometric view added
- Part number added in table
- Tooling on request note added in table, since some positions are not tooled up

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 10138980 BMI VT Header



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTES:

1. HSG: LCP, UL 94V-0, COLOR: BLACK
2. TERMINAL: COPPER ALLOY
3. TERMINAL FINISH: OPTIONAL, NI OVERALL UNDERPLATING
4. RoHS COMPLIANT.
5. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.(FOR LCP ONLY)

PART NUMBER SCHEME:

10138980- XX X X X X LF

NO OF POS.
04~24
S1: SEE SHEET 2

PLATING

1. TIN
2. GOLD
3. 15u" Au
4. 30u" Au

LEAD FREE
PACKAGE
BLANK: TRAY
C: TAPE/REEL WITHOUT CAP

TAIL OPTION
BLANK: KINK
S: STRAIGHT

HSG MATERIAL/GLOW WIRE COMPATIBLE
1. LCP, COMPATIBLE
2. LCP, NON COMPATIBLE

After Change

NOTE:

1. MATERIAL:
HOUSING: LCP, UL94V-0, HALOGEN FREE, COLOR: BLACK
CONTACT: COPPER ALLOY.
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, TIN ON SOLDER TAIL.
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
4. PRODUCT SPECIFICATION: GS-12-1177.
5. PACKAGE SPECIFICATION: GS-14-2359.
6. APPLICATION SPECIFICATION: GS-20-0399
7. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
8. THE HOUSING WILL WITHSTAND EXPOSURE TO 235°C PEAK TEMPERATURE FOR 5 SECONDS IN A WAVE SOLDER
9. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004

10. YET TO BE TOOLED UP

11. PART NUMBER SCHEME:

10138980- XX X X X X LF

POS. CODE:

04: 4 POS
06: 6 POS
S
24: 24 POS

S1: SEE SHEET-3
S2: SEE SHEET-3

LEAD FREE

OPTIONAL PACKAGES:

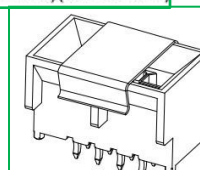
BLANK: TRAY
C: TAPE&REEL W/O CAP (TYPE-A)
T: TAPE&REEL W/O CAP (TYPE-B)
A: TAPE&REEL WITH CAP (TYPE-A)(SEE NOTE-10)
B: TAPE&REEL WITH CAP (TYPE-B)(SEE NOTE-10)

PLATING CODE:

- 1: 100u" Min. MATTE TIN OVERALL
- 2: GOLD FLASH OVERALL
- 3: 15u"Min Au ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL
- 4: 30u" Au ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL

TAIL OPTION:
BLANK: KINK
S: STRAIGHT

GLOW WIRE COMPATIBLE:
1: COMPATIBLE
2: NON-COMPATIBLE



WITH PICKUP CAP

Description of Change:

- LF, Halogen free& Wave soldering note added
- Product spec. Application spec & Packing Spec details added.
- Sheet no 3 added.
- Missing plating finish & thickness details added
- New Variants "S2" , With Cap option & Type A and B carrier tape added

Implementation Date: 31st January 2022

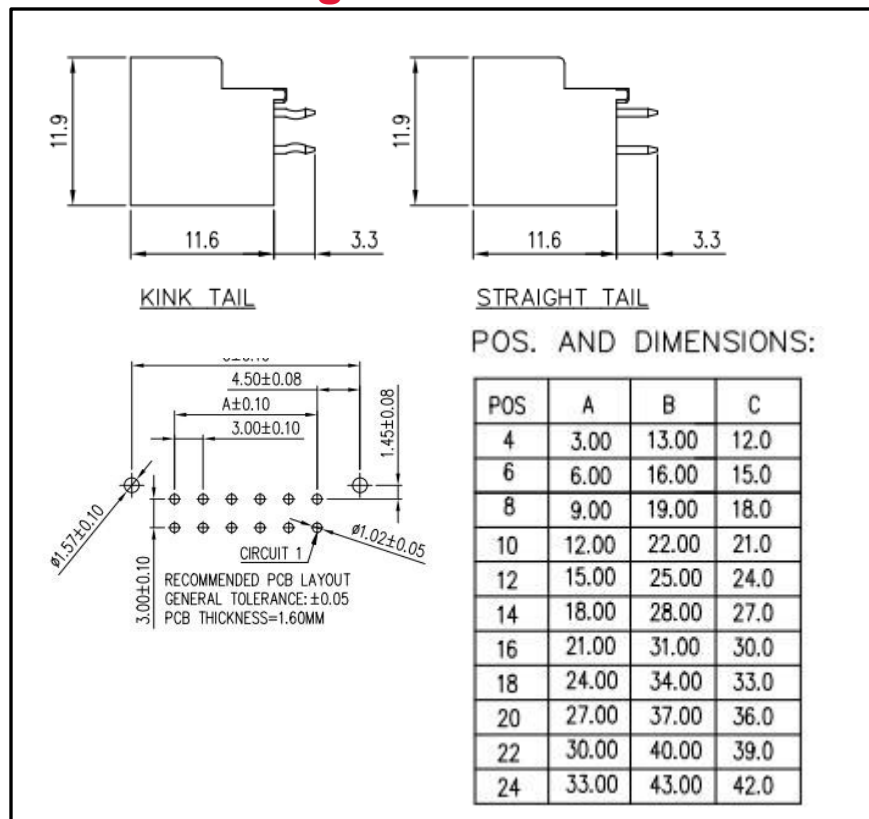
Engineering Change Notification

Product: Minitek PWR 3.0 10138980 BMI VT Header

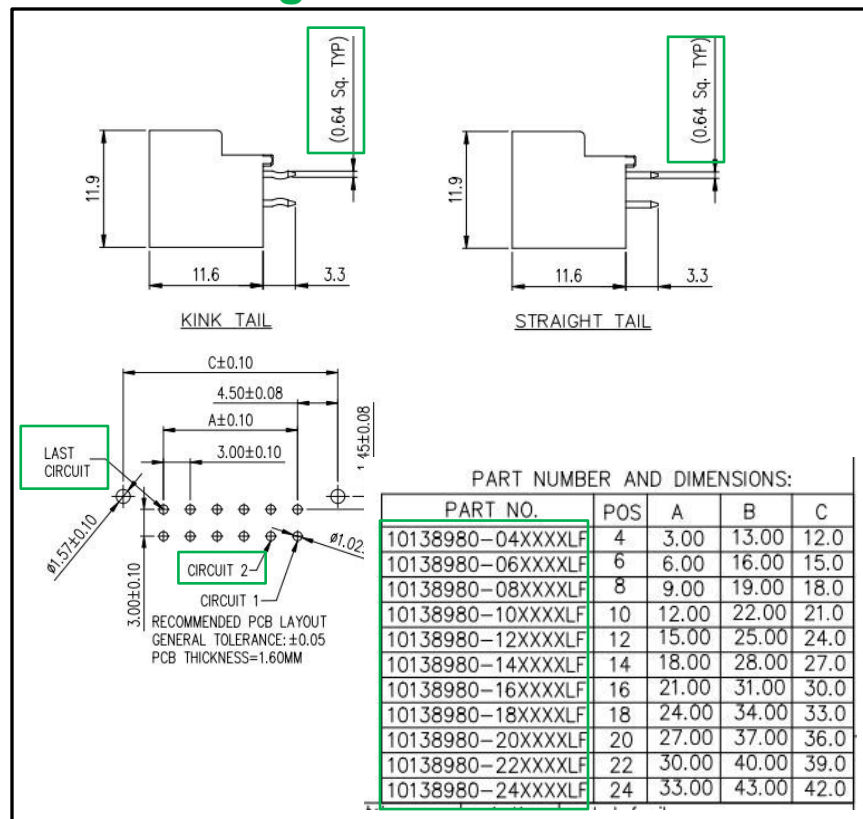


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Missing dimensions & circuit marking added
- Part number added in table

Implementation Date: 31st January 2022

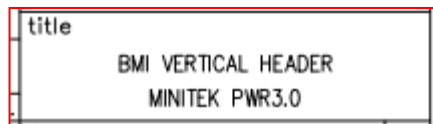
Engineering Change Notification

Product: Minitек PWR 3.0 10138980 BMI VT Header

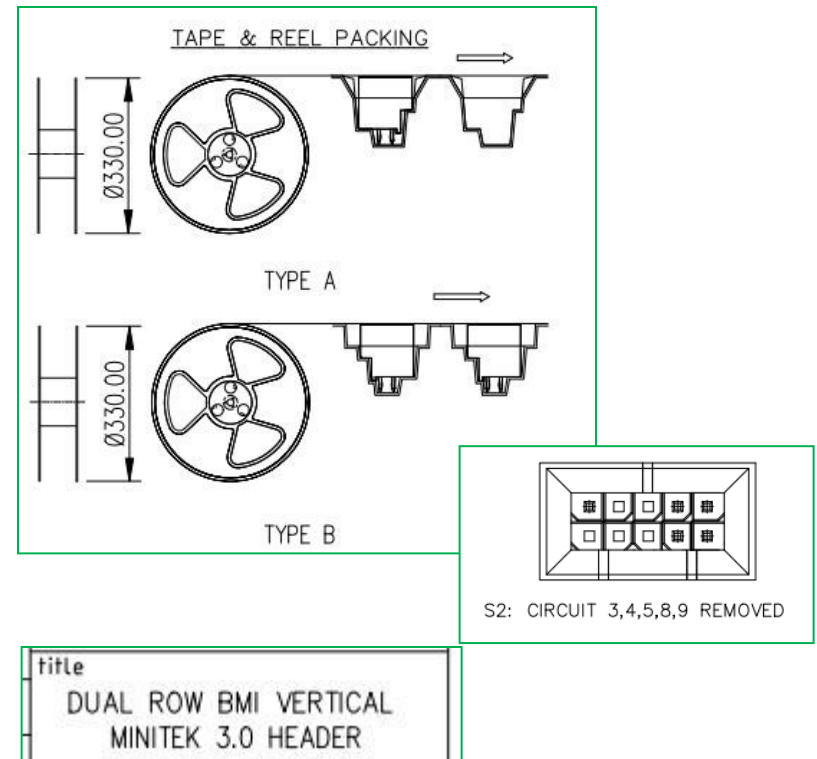


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Drawing description updated
- Type A & B packaging details added in sheet No-2
- S2 pin loading details added in sheet No-3

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 10137927 VT SMT Header



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTES:

1. MATERIALS:
HOUSING: OPTIONAL, UL94V-0, HALOGEN FREE, COLOR: BLACK
TERMINAL: COPPER ALLOY
HOLD DOWN: COPPER ALLOY
2. FINISH:
TERMINAL: OPTIONAL
HOLD DOWN: MATTE TIN
UNDER PLATING: NICKEL OVERALL
3. PRODUCT SPECIFICATION: GS-12-1177
4. PACKAGE SPECIFICATION: GS-14-2359
5. THIS PART MATES WITH FCI RECEPTACLE WIRE CONNECTOR 10127716.
6. THIS PART IS APPLICABLE FOR REFLOW PROCESS WITH 260°C PEAK TEMPERATURE FOR 10 SECONDS.

PART NUMBER SCHEME:

10137927-XX X X LF

SHOWN WITH DISPOSAL

NO OF POS.
02: 2 POS.
24: 24 POS.

HSG MATERIAL

1. LCP, GLOW WIRE COMPATIBLE
2. LCP, NON GLOW WIRE COMPATIBLE

CONTACT PLATING

1. TIN
2. GOLD FLASH
3. 15u" Au, TIN ON SOLDER TAILS
4. 30u" Au, TIN ON SOLDER TAILS

After Change

NOTE:

1. MATERIAL:
HOUSING: LCP, UL94V-0, HALOGEN FREE, COLOR: BLACK
CONTACT: COPPER ALLOY.
HOLD DOWN: COPPER ALLOY
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, 100u" MIN MATTE TIN ON SOLDER TAIL.
HOLD DOWN: 100u" MIN MATTE TIN OVER 50u" Min. NICKEL
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
4. PRODUCT SPECIFICATION: GS-12-1177.
5. TAPE & REEL PACKAGE SPECIFICATION: GS-14-2359.
6. APPLICATION SPECIFICATION: GS-20-0399
7. TO MINIMIZE THE INSERTION FORCE OF MOUNTING CLIP DURING ROBOTIC PLACEMENT THE PCB HOLE DIAMETER SHOULD BE INCREASED TO 2.74±0.05mm
8. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
9. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
10. PART NUMBER SCHEME:
10137927- XX X X LF
POS. CODE:
02: 2 POS
04: 4 POS
5
24: 24 POS
LEAD FREE
GLOW WIRE COMPATIBLE:
1: COMPATIBLE
2: NON-COMPATIBLE
PLATING CODE:
1: 100u" Min. MATTE TIN OVERALL
2: GOLD FLASH ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL
3: 15u"Min Au ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL
4: 30u" Au ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL

Description of Change:

- Plating thickness and Finish added
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- Application spec number , Packing method & LF note added
- Material name removed from Part number logic, since the material name shown in note
- Note -7 Added

Implementation Date: 31st January 2022

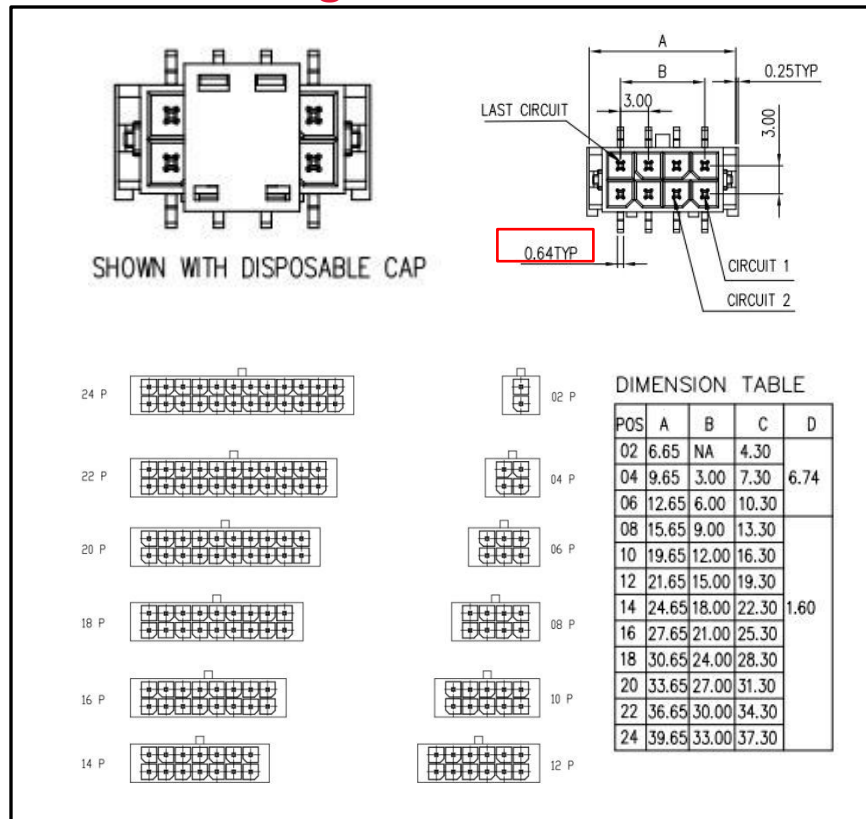
Engineering Change Notification

Product: Minitek PWR 3.0 10137927 VT SMT Header

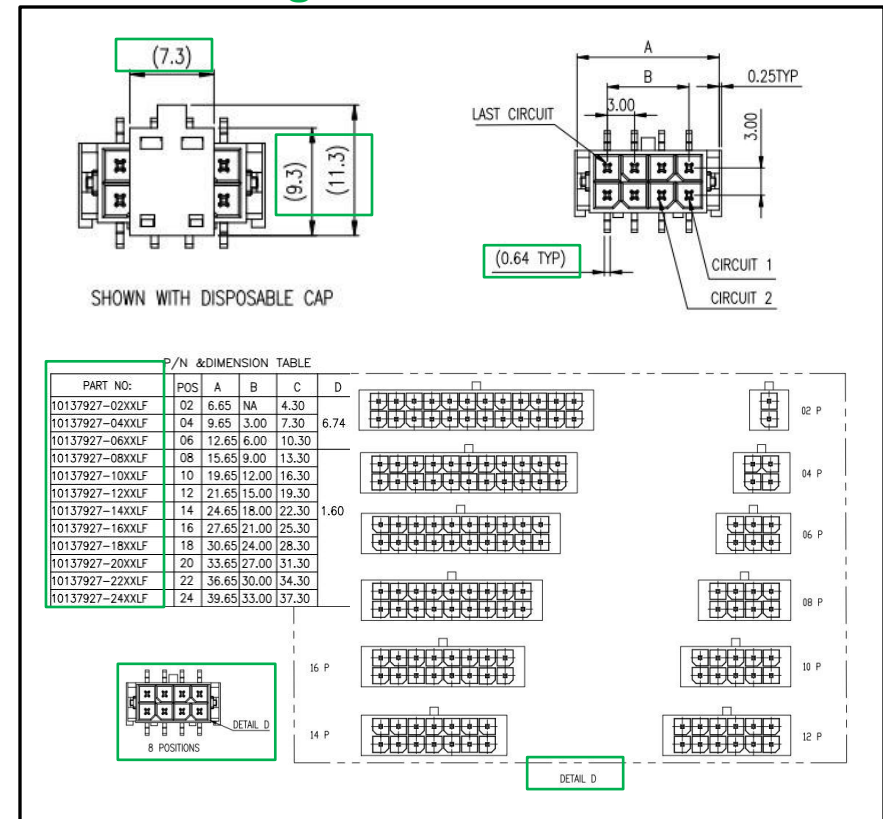


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Mating profile details view, missing note (Detail -D) to be added
- Cap dimension added
- Contact dimension updated as reference
- Part number added in table

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 10137926 VT SMT Header



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTES:

1. MATERIALS:
HOUSING: OPTIONAL, UL94V-0, HALOGEN FREE.
TERMINAL: COPPER ALLOY
HOLD DOWN: COPPER ALLOY
2. FINISH:
TERMINAL: OPTIONAL
HOLD DOWN: MATTE TIN
UNDER PLATING: NICKEL OVERALL
3. PRODUCT SPECIFICATION: GS-12-1177
4. PACKAGE SPECIFICATION: GS-14-2359
5. THIS PART MATES WITH FCI RECEPTACLE WIRE CONNECTOR 10127716
6. THIS PART IS APPLICABLE FOR REFLOW PROCESS WITH 260°C PEAK TEMPERATURE FOR 10 SECONDS.

PART NUMBER SCHEME:
10137926-XX X X X LF

NO OF POS.
02: 2 POS.
24: 24 POS.

PACKAGE
BLANK: TAPE&REEL WITH PICK UP CAP
1: TAPE&REEL WITHOUT PICK UP CAP

HSG MATERIAL
1: LCP, GLOW WIRE COMPATIBLE, BLACK
2: LCP, NON GLOW WIRE COMPATIBLE, BLACK
3: LCP, GLOW WIRE COMPATIBLE, NATURAL
4: LCP, NON GLOW WIRE COMPATIBLE, NATURAL

CONTACT PLATING
1: TIN
2: GOLD FLASH
3: 15u" Au, TIN ON SOLDER TAILS
4: 30u" Au, TIN ON SOLDER TAILS

After Change

NOTE:

1. MATERIAL:
HOUSING: LCP, UL94V-0, HALOGEN FREE, COLOR: BLACK
CONTACT: COPPER ALLOY.
HOLD DOWN: COPPER ALLOY
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, 100u" MIN MATTE TIN ON SOLDER TAIL.
HOLD DOWN: 100u" MIN MATTE TIN OVER 50u" Min. NICKEL
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
4. PRODUCT SPECIFICATION: GS-12-1177.
5. TAPE & REEL PACKAGE SPECIFICATION: GS-14-2359.
6. APPLICATION SPECIFICATION: GS-20-0399
7. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
8. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
9. PART NUMBER SCHEME:
10137926-XX X X X LF

POS. CODE:
02: 2 POS
04: 4 POS
24: 24 POS

LEAD FREE

PACKAGE:
1: TAPE&REEL WITHOUT PICKUP CAP
Q: TAPE&REEL WITH PICKUP CAP (CUSTOMER SPECIAL)(FOR 2,8&16POS)

GLOW WIRE COMPATIBLE & COLOR:
1: COMPATIBLE, BLACK
2: NON-COMPATIBLE, BLACK
3: COMPATIBLE, NATURAL
4: NON-COMPATIBLE, NATURAL

PLATING CODE:
1: 100u" Min. MATTE TIN OVERALL.
2: GOLD FLASH ON CONTACT AREA, 100u"Min MATTE TIN ON TAIL
3: 15u"Min Au ON CONTACT AREA, 100u"Min MATTE TIN ON TAIL
4: 30u" Au ON CONTACT AREA, 100u"Min MATTE TIN ON TAIL

Description of Change:

- Plating thickness and Finish added
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- Application spec number & LF note added
- Special Carrier tape option added in part number logic
- Material name removed from Part number logic, since the material name shown in note

Implementation Date: 31st January 2022

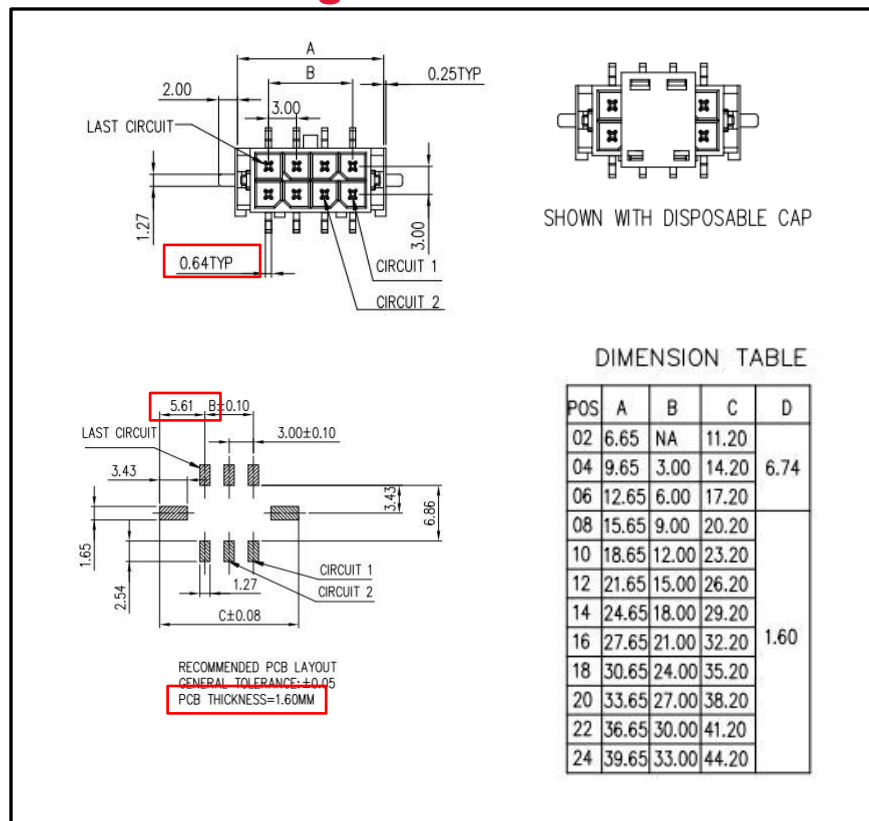
Engineering Change Notification

Product: Minitek PWR 3.0 10137926 VT SMT Header

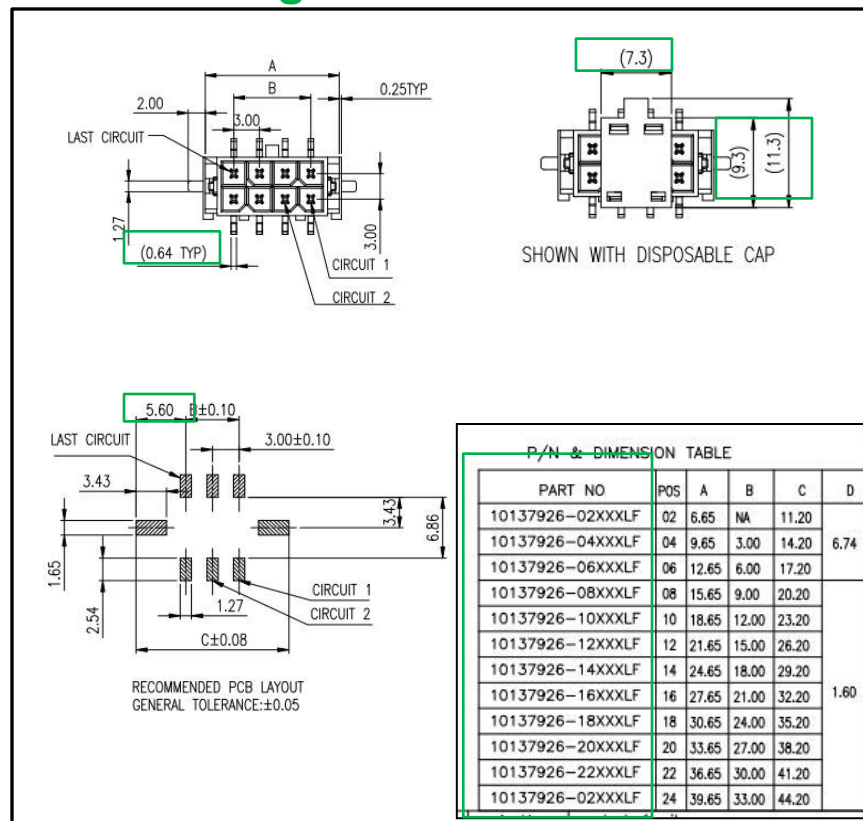


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Cap dimension added
- Contact dimension updated as reference
- Part number added in table
- Typographical errors in Dimensioning to be corrected for PCB layout. PCB thickness removed since thickness is not applicable for SMT version

Implementation Date: 31st January 2022

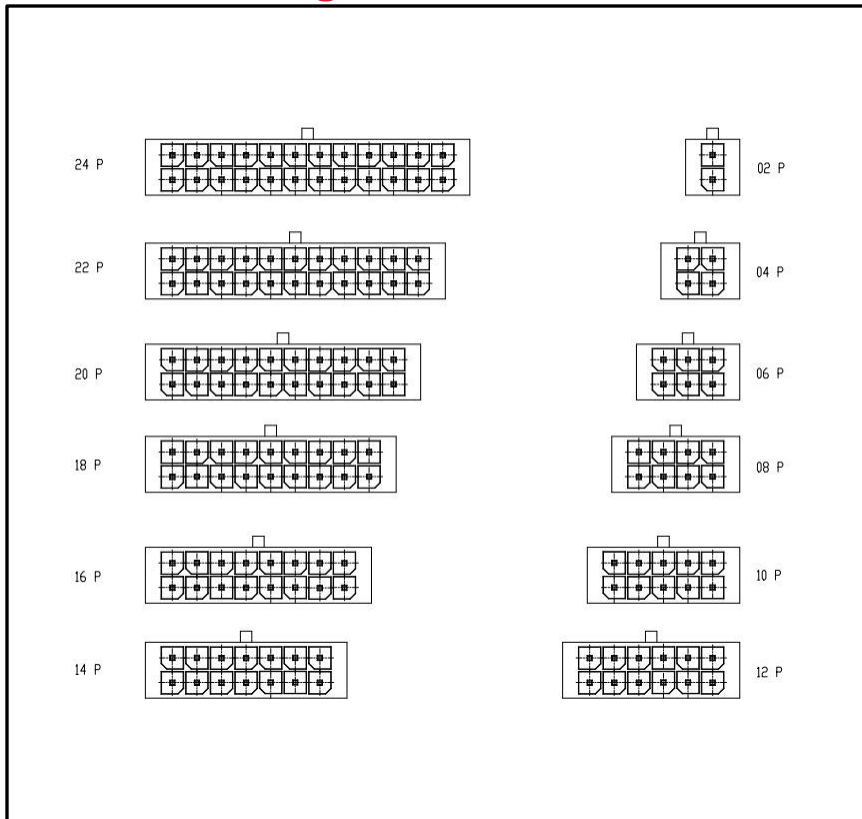
Engineering Change Notification

Product: Minitek PWR 3.0 10137926 VT SMT Header

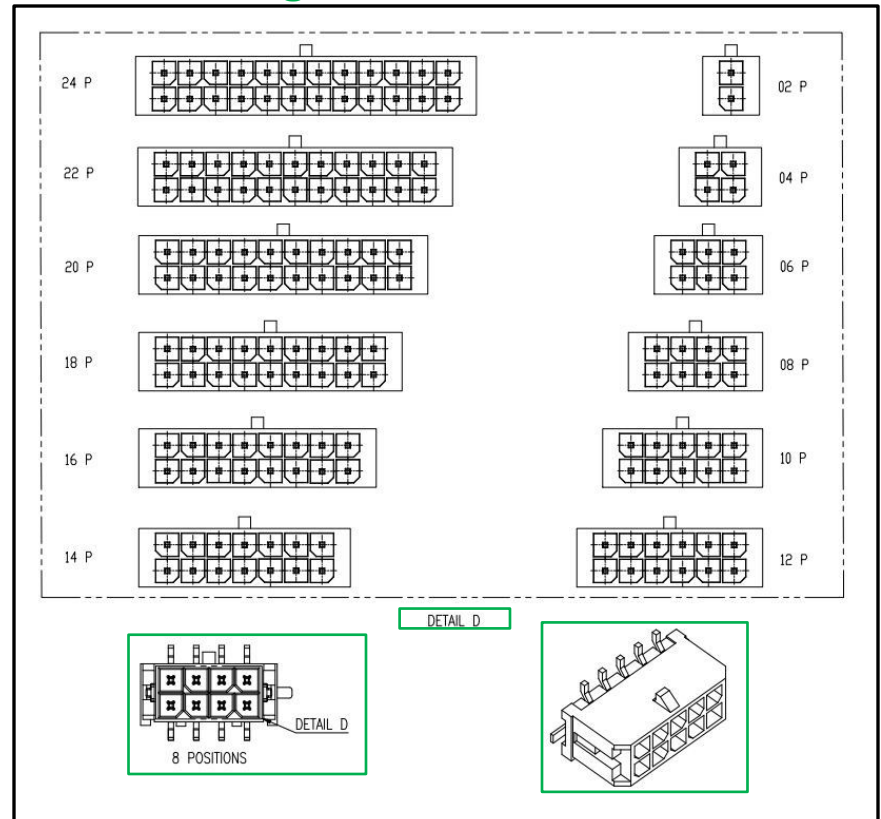


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change: ➤ Mating profile details view, missing note (Detail –D) to be added
➤ Isometric view added

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 10137925 R/A SMT Header



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTES:

1. MATERIALS:
HOUSING: OPTIONAL, UL94V-0, HALOGEN FREE, COLOR: BLACK
TERMINAL: COPPER ALLOY
HOLD DOWN: COPPER ALLOY
2. FINISH:
TERMINAL: OPTIONAL
HOLD DOWN: MATTE TIN
UNDER PLATING: NICKEL OVERALL
3. PRODUCT SPECIFICATION: GS-12-1177
4. PACKAGE SPECIFICATION: GS-14-2359
5. THIS PART MATES WITH FCI RECEPTACLE WIRE CONNECTOR 10127716.
6. THIS PART IS APPLICABLE FOR REFLOW PROCESS WITH 260°C PEAK TEMPERATURE FOR 10 SECONDS.

PART NUMBER SCHEME:

10137925-XX X X LF

NO OF POS.
02: 2 POS.
24: 24 POS.

HSG MATERIAL
1. LCP, GLOW WIRE COMPATIBLE
2. LCP, NON GLOW WIRE COMPATIBLE

CONTACT PLATING
1. TIN
2. GOLD FLASH
3. 15u" Au, TIN ON SOLDER TAILS
4. 30u" Au, TIN ON SOLDER TAILS

After Change

NOTE:

1. MATERIAL:
HOUSING: LCP, UL94V-0, HALOGEN FREE, COLOR: BLACK
CONTACT: COPPER ALLOY.
HOLD DOWN: COPPER ALLOY
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, 100u" MIN MATTE TIN ON SOLDER TAIL.
HOLD DOWN: 100u" MIN MATTE TIN OVER 50u" Min. NICKEL
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR
4. PRODUCT SPECIFICATION: GS-12-1177.
5. TAPE & REEL PACKAGE SPECIFICATION: GS-14-2359.
6. APPLICATION SPECIFICATION: GS-20-0399
7. TO MINIMIZE THE INSERTION FORCE OF MOUNTING CLIP DURING ROBOTIC PLACEMENT THE PCB HOLE DIAMETER SHOULD BE INCREASED TO 2.74±0.05mm
8. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
9. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
10. PART NUMBER SCHEME:

10137925-XX X X LF

POS. CODE:
02: 2 POS
04: 4 POS
24: 24 POS

LEAD FREE

GLOW WIRE COMPATIBLE:
1: COMPATIBLE
2: NON-COMPATIBLE

PLATING CODE:
1: 100u" Min. MATTE TIN OVERALL
2: GOLD FLASH ON CONTACT AREA,
100u" Min MATTE TIN ON TAIL
3: 15u" Min Au ON CONTACT AREA,
100u" Min MATTE TIN ON TAIL
4: 30u" Au ON CONTACT AREA,
100u" Min MATTE TIN ON TAIL

Description of Change:

- Plating thickness and Finish added
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- Application spec number , Packing method & LF note added
- Material name removed from Part number logic, since the material name shown in note
- Note -7 Added

Implementation Date: 31st January 2022

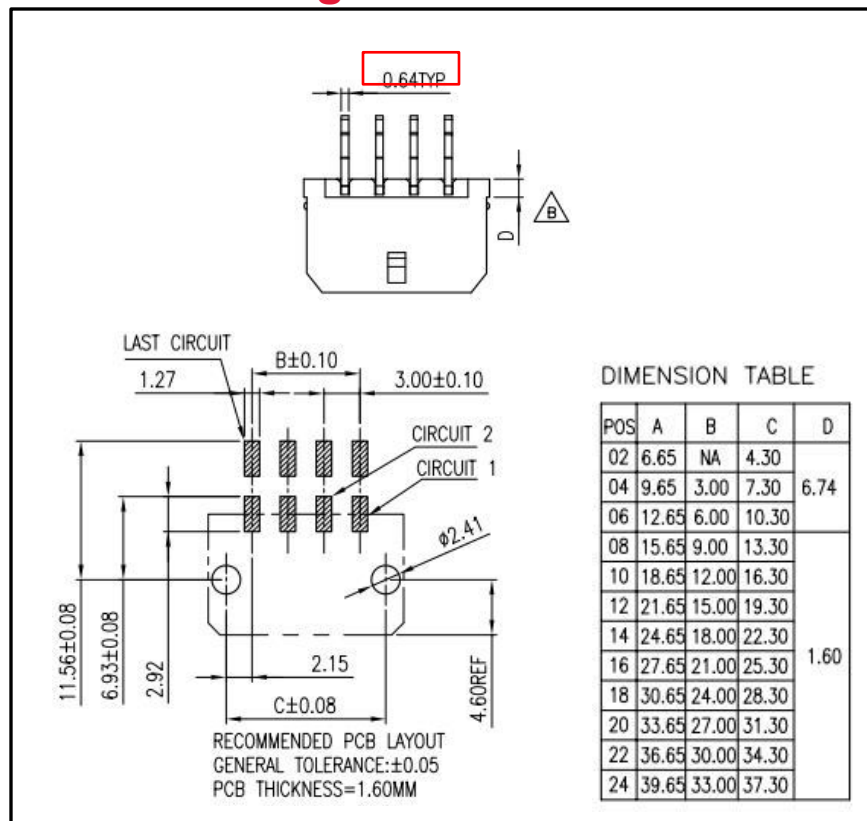
Engineering Change Notification

Product: Minitek PWR 3.0 10137925 R/A SMT Header

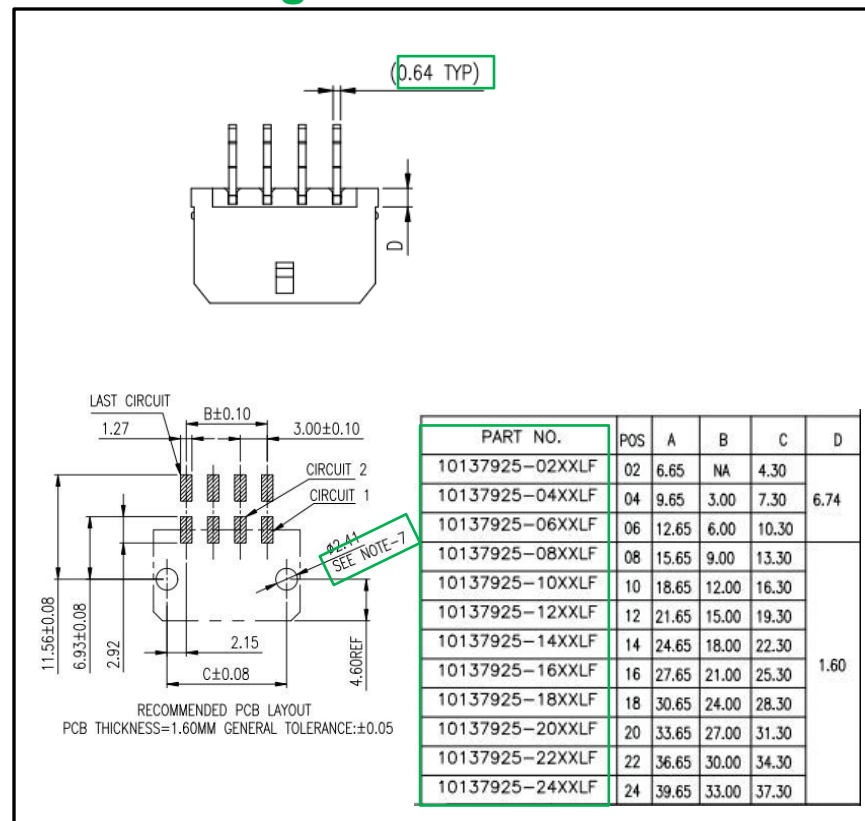


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Contact dimension updated as reference
- Part number added in table
- Note-7 Added

Implementation Date: 31st January 2022

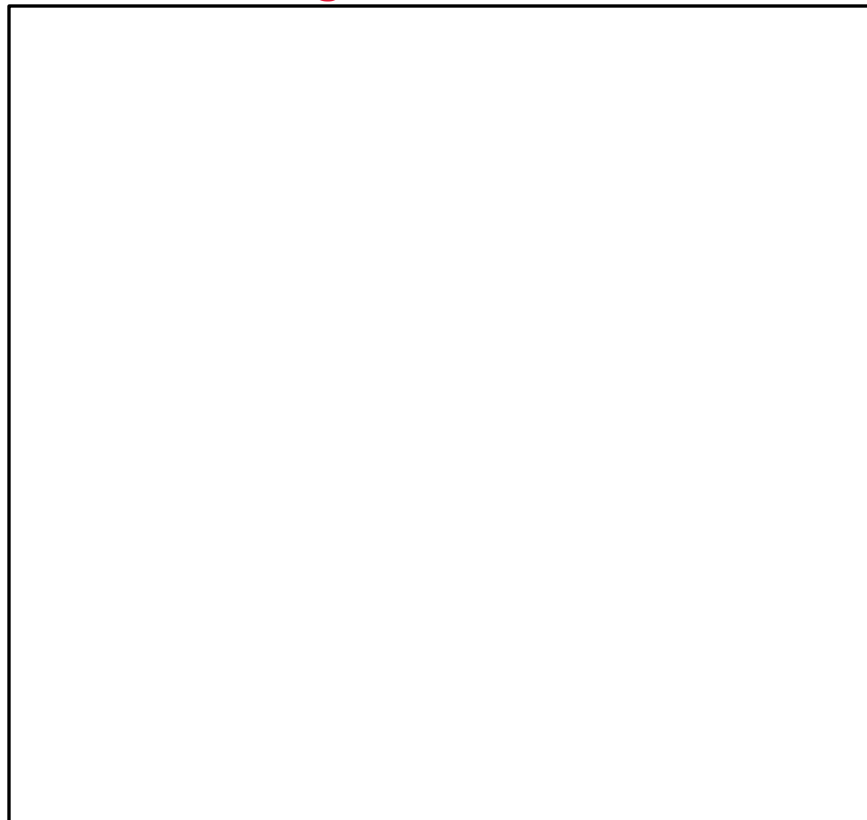
Engineering Change Notification

Product: Minitek PWR 3.0 10137925 R/A SMT Header

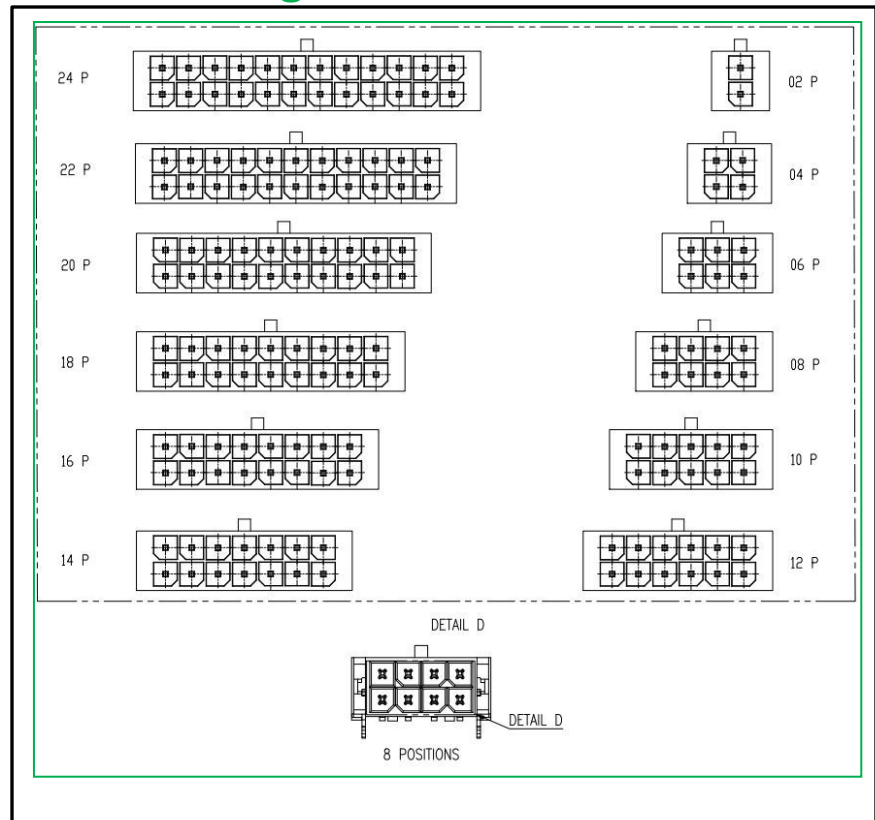


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

➤ Mating profile for all position added

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 10137924 R/A SMT Header



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTES:

1. MATERIALS:
HOUSING: OPTIONAL, UL94V-0, HALOGEN FREE, COLOR: BLACK
TERMINAL: COPPER ALLOY
HOLD DOWN: COPPER ALLOY

2. FINISH:
TERMINAL: OPTIONAL
HOLD DOWN: MATTE TIN
UNDER PLATING: NICKEL OVERALL

3. THE COPLANARITY DIMENSION IS ESTABLISHED BY PLACING THE ASSEMBLY ON A FLAT SURFACE. THE DISTANCE FROM THAT SURFACE TO THE BOTTOM OF ANY TERMINAL OR NAIL MUST NOT EXCEED 0.15mm.

4. TO AVOID INTERFERENCE BETWEEN RECEPTACLE AND PCB, HEADER MUST BE PLACED WITHIN 10.16mm MAX. FROM EDGE OF PCB, AS SHOWN IN LOCATION DETAIL.

5. PRODUCT SPECIFICATION: GS-12-1177

6. PACKAGE SPECIFICATION: GS-14-2359

7. THIS PART MATES WITH FCI RECEPTACLE WIRE CONNECTOR 10127716.

8. THIS PART IS APPLICABLE FOR REFLOW PROCESS WITH 260°C PEAK TEMPERATURE FOR 10 SECONDS.

9. PART NUMBER SCHEME:
10137924-XX X X (X) LF

NO OF POS. — X —
02: 2 POS.
24: 24 POS.

SPECIAL CHARACTER
Q: DEDICATED FOR CUSTOMER TAPE & REEL PACKAGING

HOUSING MATERIAL
1. LCP, GLOW WIRE COMPATIBLE
2. LCP, NON GLOW WIRE COMPATIBLE

CONTACT PLATING
1. TIN
2. GOLD FLASH
3. 15u" Au, TIN ON SOLDER TAILS
4. 30u" Au, TIN ON SOLDER TAILS

After Change

NOTE:

1. MATERIAL:
HOUSING: LCP, UL94V-0, HALOGEN FREE, COLOR: BLACK
CONTACT: COPPER ALLOY
HOLD DOWN: COPPER ALLOY

2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, 100u" MIN MATTE TIN ON SOLDER TAIL.
HOLD DOWN: 100u" MIN MATTE TIN OVER 50u" Min. NICKEL

3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.

4. PRODUCT SPECIFICATION: GS-12-1177.

5. TAPE & REEL PACKAGE SPECIFICATION: GS-14-2359.

6. APPLICATION SPECIFICATION: GS-20-0399

7. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.

8. THE COPLANARITY DIMENSION IS ESTABLISHED BY PLACING THE ASSEMBLY ON A FLAT SURFACE. THE DISTANCE FROM THAT SURFACE TO THE BOTTOM OF ANY TERMINAL OR NAIL MUST NOT EXCEED 0.15mm.

9. TO AVOID INTERFERENCE BETWEEN RECEPTACLE AND PCB, HEADER MUST BE PLACED WITHIN 10.16mm MAX. FROM EDGE OF PCB, AS SHOWN IN LOCATION DETAIL.

10. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004

11. PART NUMBER SCHEME:
10137924-XX X X X LF

POS. CODE: — X —
02: 2 POS
04: 4 POS
24: 24 POS

— LEAD FREE

— PACKAGING OPTION:
BLANK: TAPE & REEL
Q: CUSTOMER SPECIAL TAPE & REEL

— GLOW WIRE COMPATIBLE:
1: COMPATIBLE
2: NON-COMPATIBLE

PLATING CODE:
1: 100u" Min. MATTE TIN OVERALL
2: GOLD FLASH ON CONTACT AREA
100u" Min MATTE TIN ON TAIL
3: 15u" Min Au ON CONTACT AREA,
100u" Min MATTE TIN ON TAIL
4: 30u" Au ON CONTACT AREA,
100u" Min MATTE TIN ON TAIL

P/N & DIMENSION TABLE

PART NO.	POS	A	B	C	D
10137924-02XXXLF	02	6.65	NA	11.20	

Description of Change:

- Plating thickness and Finish added
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- Application spec number , Packing method & LF note added
- Material name removed from Part number logic, since the material name shown in note
- "Blank" tape & reel option added in part number logic

Implementation Date: 31st January 2022

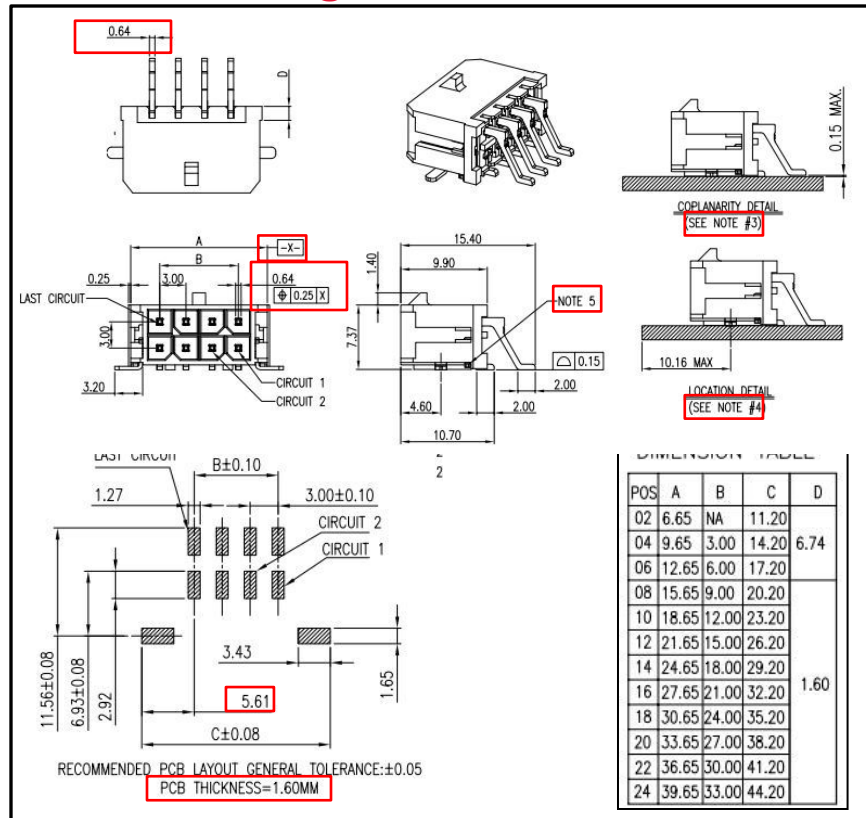
Engineering Change Notification

Product: Minitek PWR 3.0 10137924 R/A SMT Header

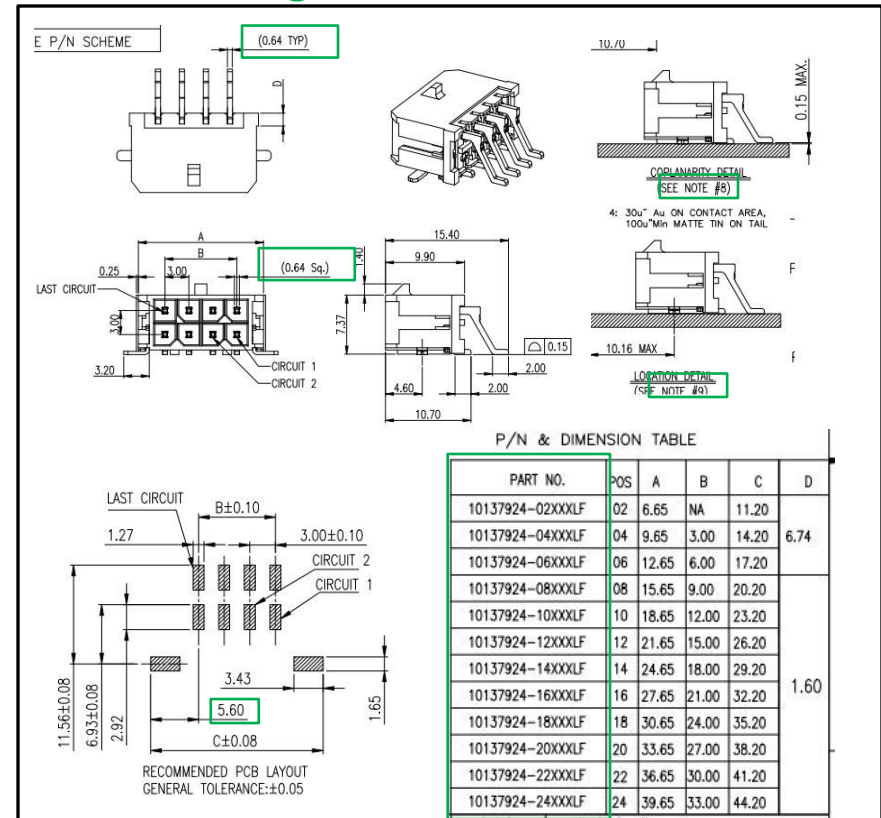
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Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Contact dimension updated as reference & True position removed from drawing
- Part number added in table
- Typographical errors in Dimensioning to be corrected for PCB layout. PCB thickness removed since thickness is not applicable for SMT version
- Location and Coplanarity detail note updated

Implementation Date: 31st January 2022

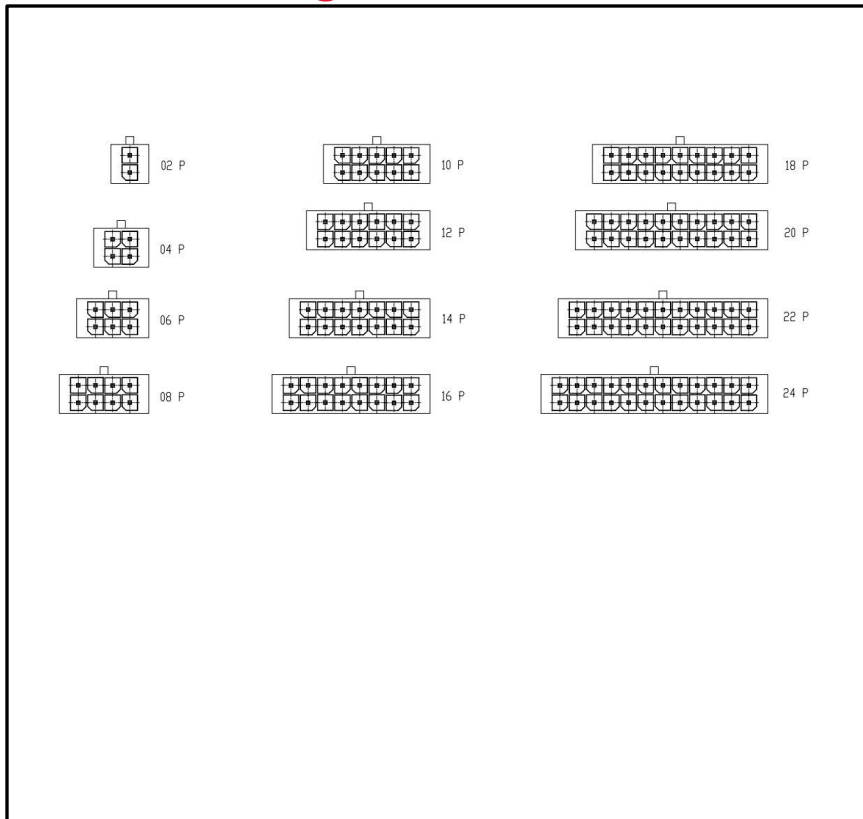
Engineering Change Notification

Product: Minitek PWR 3.0 10137924 R/A SMT Header

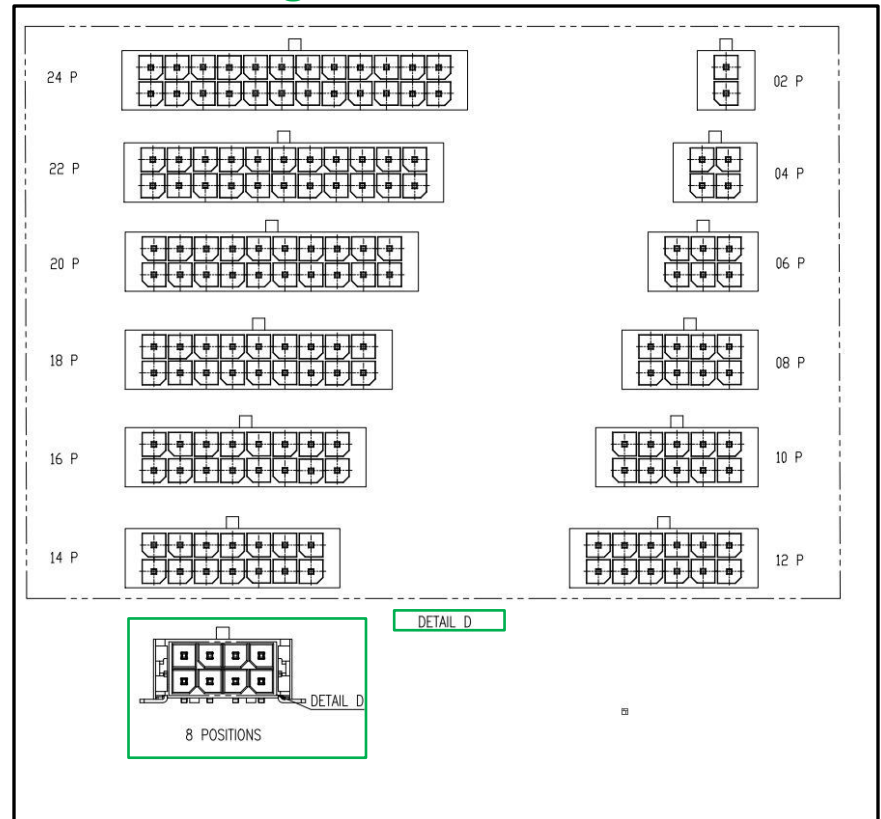


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



➤ Mating profile details view, missing note (Detail –D) to be added

Description of Change:

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 10137867 R/A SMT Header



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTES:

1. MATERIALS:
HOUSING: LCP, UL94V-0, COLOR: BLACK
TERMINAL: COPPER ALLOY
BOARD LOCK: COPPER ALLOY
2. FINISH:
TERMINAL: SEE PART NO. SCHEME
BOARD LOCK: TIN
UNDER PLATING OF THESE 2 PARTS: NICKEL OVERALL
3. PRODUCT SPECIFICATION: GS-12-1177
4. PACKAGE SPECIFICATION: GS-14-2359
5. THIS PART MATES WITH FCI RECEPTACLE WIRE CONNECTOR 101366536
6. THIS PART IS APPLICABLE FOR REFLOW PROCESS WITH 260°C PEAK TEMPERATURE FOR 5 SECONDS.

PART NUMBER SCHEME:

10137867-XX X X LF

NO OF POS.
02: 2 POS.
12: 12 POS.

HSG MATERIAL, GLOW WIRE COMPATIBLE
1. COMPATIBLE
2. NON COMPATIBLE

PLATING

1. TIN
2. GOLD FLASH
3. 15u" Au, TIN ON TAILS
4. 30u" Au, TIN ON TAILS

After Change

NOTE:

1. MATERIAL:
HOUSING: LCP, UL94V-0, HALOGEN FREE COLOR: BLACK
CONTACT: COPPER ALLOY
METAL HOLD DOWN: COPPER ALLOY
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, 100u" MIN MATTE TIN ON SOLDER TAIL.
METAL HOLD DOWN FINISH: 100u" MIN MATTE TIN OVER 50u" Min. NICKEL
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
4. PRODUCT SPECIFICATION: GS-12-1177.
5. TAPE & REEL PACKAGE SPECIFICATION: GS-14-2359.
6. APPLICATION SPECIFICATION: GS-20-0399
7. TO MINIMIZE THE INSERTION FORCE OF MOUNTING CLIP DURING ROBOTIC PLACEMENT THE PCB HOLE DIAMETER SHOULD BE INCREASED TO 2.74±0.05mm
8. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
9. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
10. PART NUMBER SCHEME:
10137867-XX X X LF
POS. CODE: 02: 2 POS
03: 4 POS
12: 12 POS
S1: SEE SHEET-2
LEAD FREE
GLOW WIRE COMPATIBLE:
1: COMPATIBLE
2: NON-COMPATIBLE
PLATING CODE:
1: 100u" Min. MATTE TIN OVERALL
2: GOLD FLASH ON CONTACT AREA, 100u"Min MATTE TIN ON TAIL
3: 15u"Min Au ON CONTACT AREA, 100u"Min MATTE TIN ON TAIL
4: 30u" Au ON CONTACT AREA, 100u"Min MATTE TIN ON TAIL

Description of Change:

- Plating thickness and Finish added
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- Application spec number , Packing method, Halogen free note & LF note are added
- Note -7 Added
- Reflow spec updated
- New "S1" selective loading variant added

Implementation Date: 31st January 2022

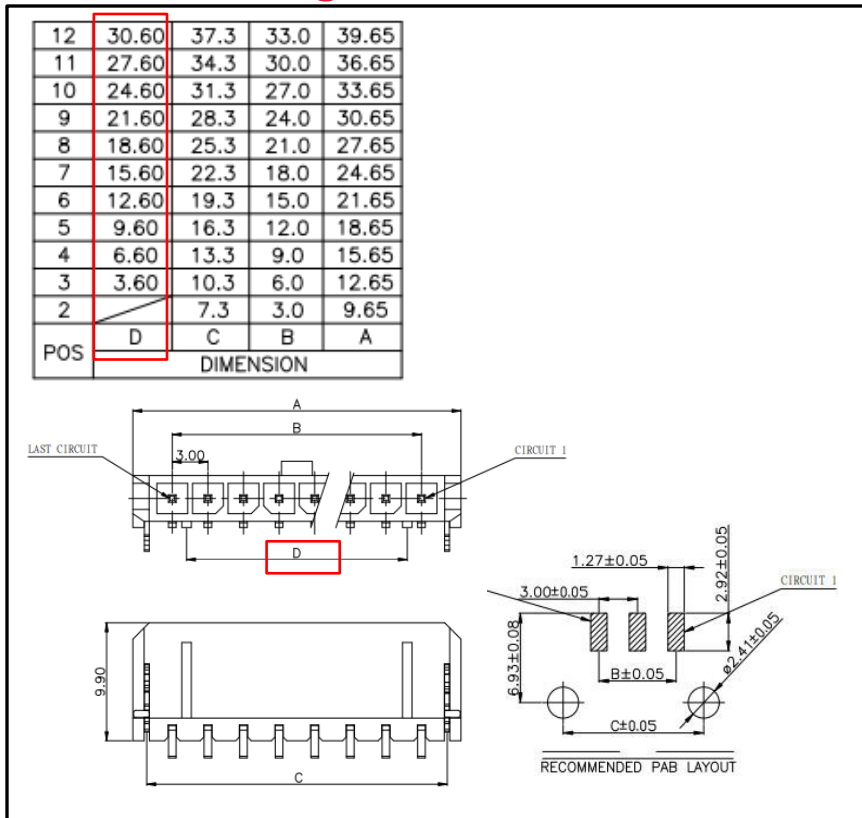
Engineering Change Notification

Product: Minitek PWR 3.0 10137867 R/A SMT Header

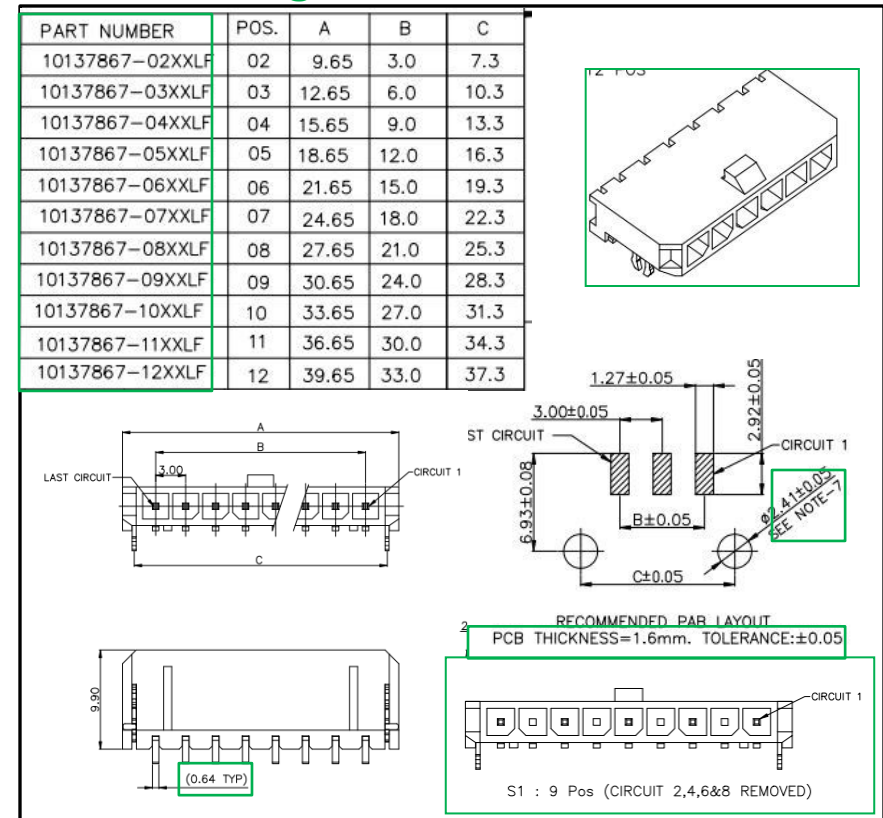


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Dimension "D" removed from drawing.
- Part number added in table
- Contact size , PCN thickness details & isometric view added
- "S1" Mating view added
- Note-7 added

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 10136656 Vertical Header



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTES:

1. MATERIALS:
HOUSING: LCP, UL94V-0, BLACK
TERMINAL: COPPER ALLOY
2. FINISH:
TERMINAL: SEE PART NO. SCHEME
UNDER PLATING: NICKEL OVERALL
3. PRODUCT SPECIFICATION: GS-12-1177
4. PACKAGE SPECIFICATION: GS-14-2359
5. THIS PART MATES WITH FCI RECEPTACLE WIRE CONNECTOR 10136653
6. THIS PART IS APPLICABLE FOR WAVE SOLDERING WITH A 1.6mm THICKNESS PCB, AND APPLICABLE FOR 260°C 5 SEC. REFLOW SOLDERING PROCESS.

PART NUMBER SCHEME:

10136656-XX X X X LF

NO OF POS.
02: 2 POS.

12: 12 POS.

PLATING

1. TIN
2. GOLD FLASH
3. 15u" Au, TIN ON TAILS
4. 30u" Au, TIN ON TAILS

HOUSING COLOR
BLANK: BLACK
N: NATURAL

HSG MATERIAL, GLOW WIRE COMPATIBLE

1. COMPATIBLE
2. NON COMPATIBLE

After Change

NOTE:

1. MATERIAL:
HOUSING: LCP, UL94V-0 HALOGEN FREE, COLOR: OPTION
CONTACT: COPPER ALLOY
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA TIN ON SOLDER TAIL
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR
4. PRODUCT SPECIFICATION: GS-12-1177.
5. PACKAGE SPECIFICATION: GS-14-2359.
6. APPLICATION SPECIFICATION: GS-20-0399
7. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
8. THE HOUSING WILL WITHSTAND EXPOSURE TO 235°C PEAK TEMPERATURE FOR 5 SECONDS IN A WAVE SOLDER
9. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
10. PART NUMBER SCHEME:
10136656- XX X X X X LF

POS. CODE:
02: 2 POS
03: 4 POS
12: 12 POS

PLATING CODE:

- 1: 100u" Min. MATTE TIN OVERALL
- 2: GOLD FLASH OVERALL
- 3: 15u"Min Au ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL
- 4: 30u" Au ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL

LEAD FREE

PACKAGE:
BLANK: TRAY
T: TAPE & REEL

HOUSING COLOR:
BLANK: BLACK
N: NATURAL

GLOW WIRE COMPATIBLE:
1: COMPATIBLE
2: NON-COMPATIBLE

Description of Change:

- Color details removed from notes. Since it is mentioned in part number logic
- Plating thickness and Finish added
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- Application spec number , Packing method, Halogen free note & LF note are added
- Packing types added in part number logic

Implementation Date: 31st January 2022

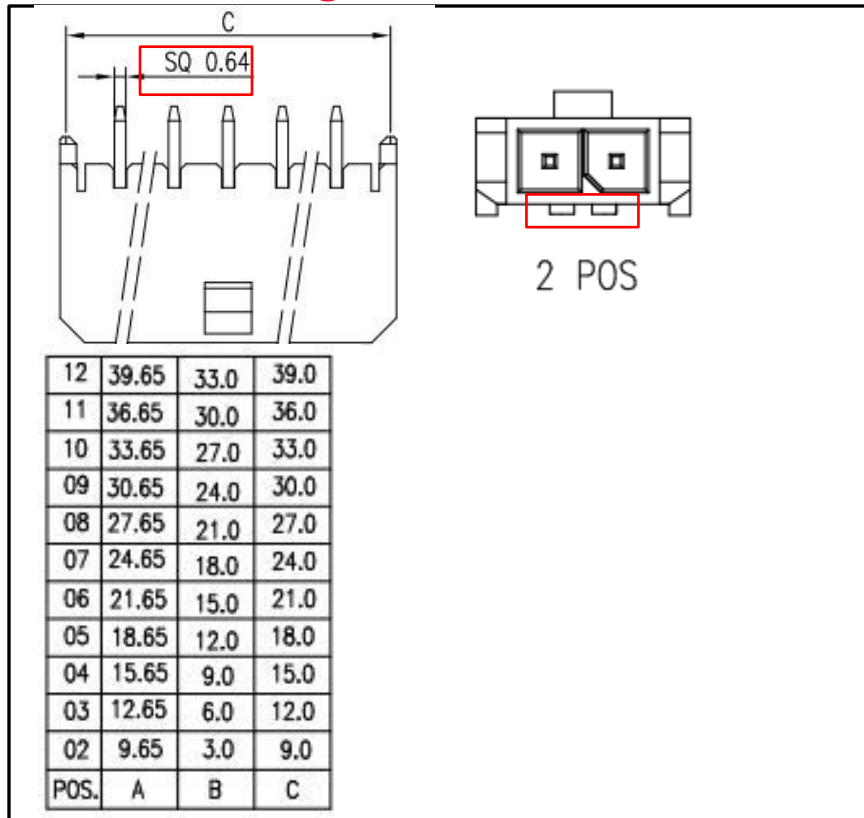
Engineering Change Notification

Product: Minitek PWR 3.0 10136656 Vertical Header

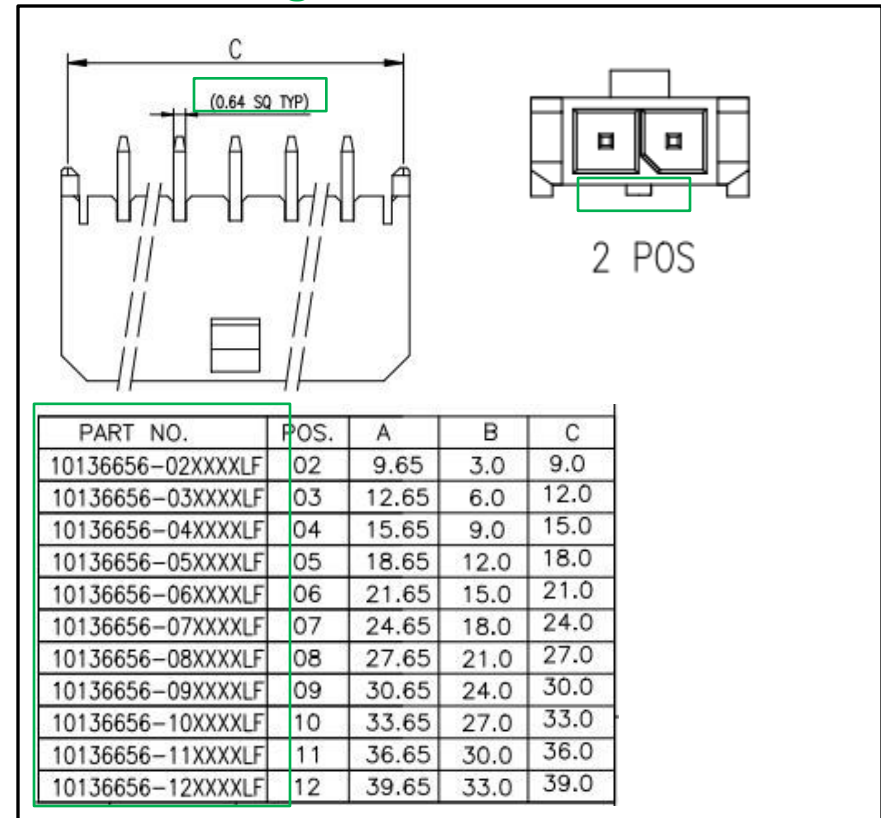


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Contact dimension updated as reference
- No of side ribs reduce from 2 to 1.
- Part number added in table

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 10136655 R/A SMT Header



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTES:

1. MATERIALS:

HOUSING: LCP, UL94V-0, COLOR: BLACK
TERMINAL: COPPER ALLOY
HOLD DOWN: COPPER ALLOY

2. FINISH:

TERMINAL: SEE PART NO. SCHEME
HOLD DOWN: TIN
UNDER PLATING OF THESE 2 PARTS: NICKEL OVERALL

3. PRODUCT SPECIFICATION: GS-12-1177

4. PACKAGE SPECIFICATION: GS-14-2359

5. THIS PART MATES WITH FCI RECEPTACLE WIRE CONNECTOR 10136653.

6. THIS PART IS APPLICABLE FOR REFLOW PROCESS WITH 260°C PEAK TEMPERATURE FOR 5 SECONDS.

PART NUMBER SCHEME:

10136655-XX X X LF

NO OF POS.
02: 2 POS.
12: 12 POS.

HSG MATERIAL, GLOW WIRE COMPATIBLE
1. COMPATIBLE
2. NON COMPATIBLE

PLATING

1. TIN
2. GOLD FLASH
3. 15u" Au, TIN ON TAILS
4. 30u" Au, TIN ON TAILS

After Change

NOTE:

1. MATERIAL:

HOUSING: LCP, UL94V-0, HALOGEN FREE COLOR: BLACK
CONTACT: COPPER ALLOY.
METAL HOLD DOWN: COPPER ALLOY

2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.

OPTIONAL PLATING ON CONTACT AREA, 100u" MIN MATTE TIN ON SOLDER TAIL.
METAL HOLD DOWN FINISH: 100u" MIN MATTE TIN OVER 50u" Min. NICKEL

3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.

4. PRODUCT SPECIFICATION: GS-12-1177.

5. TAPE & REEL PACKAGE SPECIFICATION: GS-14-2359.

6. APPLICATION SPECIFICATION: GS-20-0399

7. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.

8. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004

9. PART NUMBER SCHEME:

10136655-XX X X LF

POS. CODE:
02: 2 POS
03: 4 POS
12: 12 POS

LEAD FREE

GLOW WIRE COMPATIBLE:
1: COMPATIBLE
2: NON-COMPATIBLE

PLATING CODE:

- 1: 100u" Min. MATTE TIN OVERALL
- 2: GOLD FLASH ON CONTACT AREA, 100u" Min MATTE TIN ON TAIL
- 3: 15u" Min Au ON CONTACT AREA, 100u" Min MATTE TIN ON TAIL
- 4: 30u" Au ON CONTACT AREA, 100u" Min MATTE TIN ON TAIL

Description of Change:

- Plating thickness and Finish added
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- Application spec number , Packing method, Halogen free note & LF note are added
- Reflow spec updated

Implementation Date: 31st January 2022

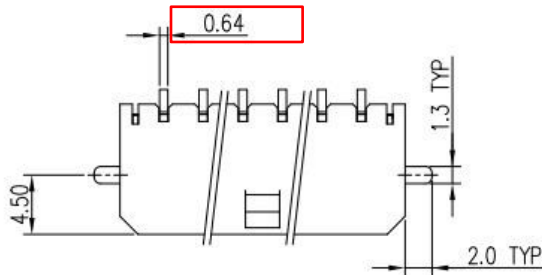
Engineering Change Notification

Product: Minitek PWR 3.0 10136655 R/A SMT Header



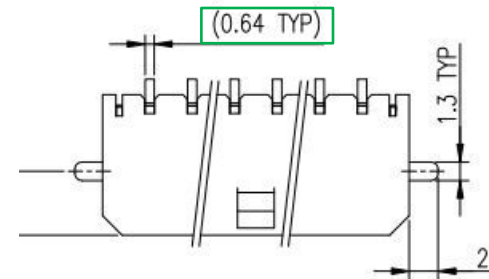
Site CCB No./Global PCN No. COK-005-22

Before Change



POS.	A	B	C
02	9.65	3.00	14.20
03	12.65	6.00	17.20
04	15.65	9.00	20.20
05	18.65	12.00	23.20
06	21.65	15.00	26.20
07	24.65	18.00	29.20
08	27.65	21.00	32.20
09	30.65	24.00	35.20
10	33.65	27.00	38.20
11	36.65	30.00	41.20
12	39.65	33.00	44.20

After Change



PART NUMBER	POS.	A	B	C
10136655-02XXLF	02	9.65	3.00	14.20
10136655-03XXLF	03	12.65	6.00	17.20
10136655-04XXLF	04	15.65	9.00	20.20
10136655-05XXLF	05	18.65	12.00	23.20
10136655-06XXLF	06	21.65	15.00	26.20
10136655-07XXLF	07	24.65	18.00	29.20
10136655-08XXLF	08	27.65	21.00	32.20
10136655-09XXLF	09	30.65	24.00	35.20
10136655-10XXLF	10	33.65	27.00	38.20
10136655-11XXLF	11	36.65	30.00	41.20
10136655-12XXLF	12	39.65	33.00	44.20

Description of Change:

- Contact dimension updated as reference
- Part number added in table

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 10136654 R/A Header



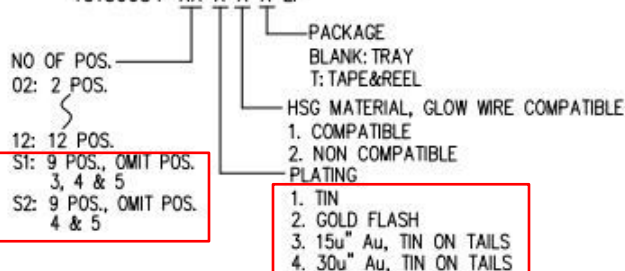
Site CCB No./Global PCN No. COK-005-22

Before Change

NOTES:

1. MATERIALS:
HOUSING: LCP, UL94V-0, COLOR: BLACK
TERMINAL: COPPER ALLOY.
2. FINISH OF TERMINAL:
CONTACT AREA AND SOLDER TAIL: SEE PART NO. SCHEME.
UNDER PLATING: NICKEL OVERALL
3. PRODUCT SPECIFICATION: GS-12-1177
4. PACKAGE SPECIFICATION: GS-14-2359
5. THIS PART MATES WITH FCI RECEPTACLE WIRE CONNECTOR 10136653
6. THIS PART IS APPLICABLE FOR WAVE SOLDER WITH A 2.36mm THICKNESS PCB, AND APPLICABLE FOR 260°C 5 SEC. REFLOW SOLDERING PROCESS.

PART NUMBER SCHEME: 10136654-XX X X X LF



After Change

NOTE:

1. MATERIAL:
HOUSING: LCP, UL94V-0, **HALOGEN FREE**, COLOR: BLACK
CONTACT: COPPER ALLOY.
 2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, TIN ON SOLDER TAIL.
 3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
 4. PRODUCT SPECIFICATION: GS-12-1177.
 5. PACKAGE SPECIFICATION: GS-14-2359.
 6. APPLICATION SPECIFICATION: GS-20-0399.
 7. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
 8. THE HOUSING WILL WITHSTAND EXPOSURE TO 235°C PEAK TEMPERATURE FOR 5 SECONDS IN A WAVE SOLDER
 9. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
 10. PART NUMBER SCHEME:
10136654-XX X X X LF
- POS. CODE:
- 02: 2 POS
 - 03: 4 POS
 - 12: 12 POS
- S1: SEE SHEET-2
S2: SEE SHEET-2
- PLATING CODE:
- 1: 100u" Min. MATTE TIN OVERALL
 - 2: GOLD FLASH OVERALL
 - 3: 15u" Min Au ON CONTACT AREA, 100u" Min MATTE TIN ON TAIL
 - 4: 30u" Au ON CONTACT AREA, 100u" Min MATTE TIN ON TAIL
- OPTIONAL PACKAGES:
BLANK: TRAY
R: TAPE AND REEL
- GLOW WIRE COMPATIBLE:
1: COMPATIBLE
2: NON-COMPATIBLE

Description of Change:

- Plating thickness and Finish added
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- Application spec number , Packing method, Halogen free note & LF note are added
- Reflow spec updated & Wave soldering details added
- No of Pos S1 & S2 note updated in part number logic

Implementation Date: 31st January 2022

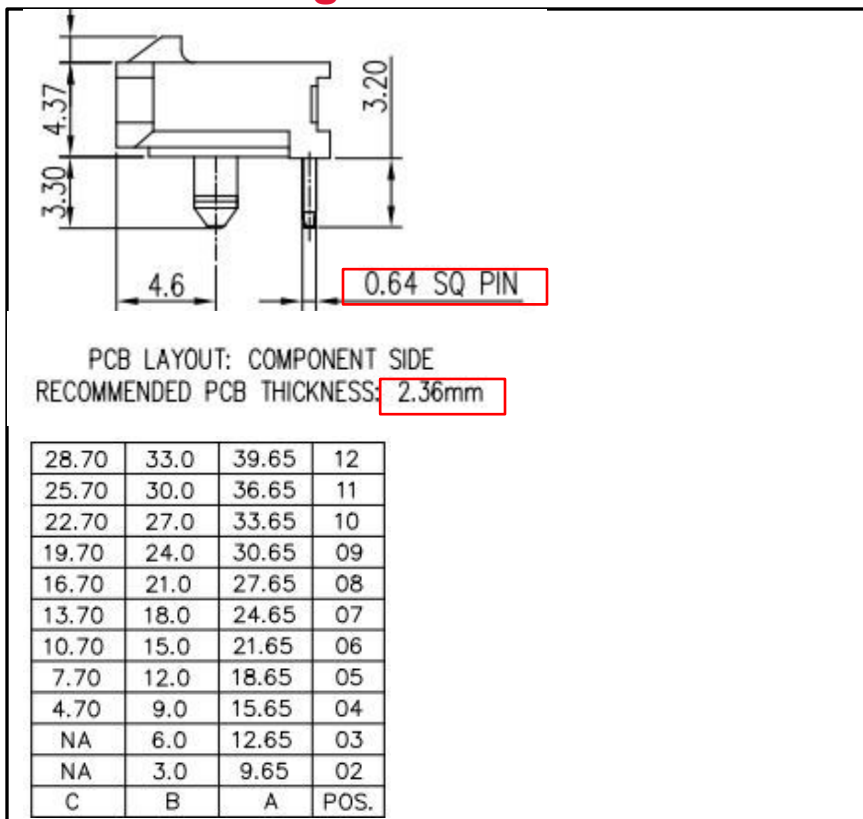
Engineering Change Notification

Product: Minitek PWR 3.0 10136654 R/A Header

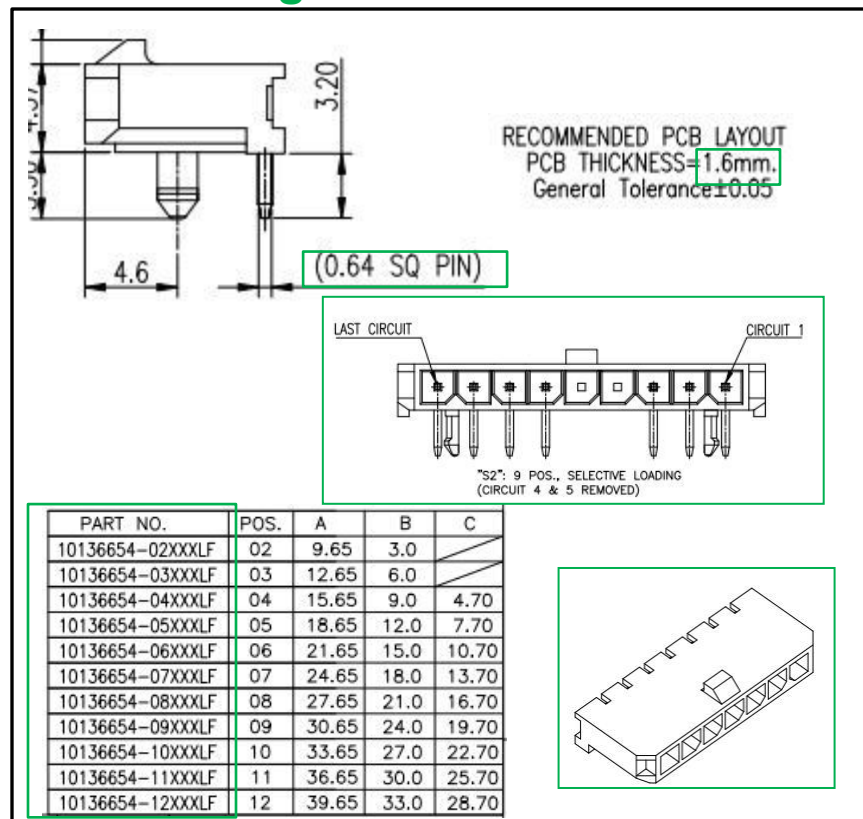


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Contact dimension updated as reference
- Part number added in table
- Typographical error in PCB Thickness to be corrected
- Isometric view and "S2" contact loaded view added

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 HCC 10132449 R/A Header



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTE:

1. MATERIAL:
HOUSING: PA9T, UL94V-0, COLOR: BLACK
CONTACT: HIGH CONDUCTIVITY COPPER ALLOY.
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED.
OPTIONAL PLATING ON CONTACT AREA & SOLDER TAIL.
3. THIS PLUG MATES WITH FCI RECEPTACLE WIRE
CONNECTOR 10132445 & 10127716 .
4. PRODUCT SPECIFICATION: GS-12-1291.
5. PACKAGE SPECIFICATION: GS-14-2419.
6. TAPE AND REEL PACKING: TYPE A-ONLY FOR 02 AND 06 POS.
TYPE B-FOR ALL POSITIONS
7. THE HOUSING WILL WITHSTAND EXPOSURE TO
260°C PEAK TEMPERATURE FOR 5 SECONDS IN A
CONVENTION REFLOW OVEN.
8. PART NUMBER SCHEME:
AU10132449- XX X X X X X LF

POS. CODE: ————
02: 2 POS
04: 4 POS
24: 24 POS

LEAD FREE
PACKAGING
BLANK: TRAY
T: TAPE & REEL (SEE NOTE 6)
TAIL LENGTH
BLANK: TYPE A
B: TYPE B

PLATING CODE:
1: GOLD FLASH
2: 60u" Min. MATTE TIN

HSG MATERIAL:
G: PA9T (GLOW WIRE
COMPATIBLE)

HSG COLOR:
1: BLACK

9. 'AU' PREFIX AND '-' IN THE PART NUMBER LOGIC ARE OPTIONAL.
FOR ANY CLARIFICATION PLEASE CONTACT AFCI ENGINEERING

After Change

NOTE:

1. MATERIAL:
HOUSING: HIGH TEMP NYLON, UL94V-0, HALOGEN FREE, COLOR: OPTIONAL
CONTACT: HIGH CONDUCTIVITY COPPER ALLOY.
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, 100u" MATTE TIN ON SOLDER TAIL.
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR
4. PRODUCT SPECIFICATION: GS-12-1291.
5. PACKAGE SPECIFICATION: GS-14-2419.
6. APPLICATION SPECIFICATION: GS-20-0399
7. TAPE AND REEL PACKING: TYPE A-ONLY FOR 02 AND 06 POS.
TYPE B-FOR ALL POSITIONS
8. THE HOUSING WILL WITHSTAND EXPOSURE TO
260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
9. THE HOUSING WILL WITHSTAND EXPOSURE TO
235°C PEAK TEMPERATURE FOR 5 SECONDS IN A WAVE SOLDER
10. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES
AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
11. PART NUMBER SCHEME:
AU10132449- XX X X X X X LF

POS. CODE: ————
02: 2 POS
04: 4 POS
24: 24 POS

LEAD FREE
PACKAGING
BLANK: TRAY
T: TAPE & REEL (SEE NOTE 7)
TAIL LENGTH
BLANK: TYPE A
B: TYPE B

PLATING CODE:
1: GOLD FLASH OVERALL
2: 100u" Min. MATTE TIN OVERALL
4: 30u" Min GOLD ON CONTACT AREA,
100u" Min MATTE TIN ON TAIL

HSG MATERIAL:
G: HIGH TEMP NYLON (GLOW WIRE
COMPATIBLE)

HSG COLOR:
1: BLACK

12. 'AU' PREFIX AND '-' IN THE PART NUMBER LOGIC ARE OPTIONAL.
FOR ANY CLARIFICATION PLEASE CONTACT AFCI ENGINEERING

Description of Change:

- Material description changed to high temp. Nylon
- Plating thickness and Finish added
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- Application spec number , Halogen free note & LF note are added
- Reflow spec updated & Wave soldering details added
- Notes numbers updated

Implementation Date:

31st January 2022

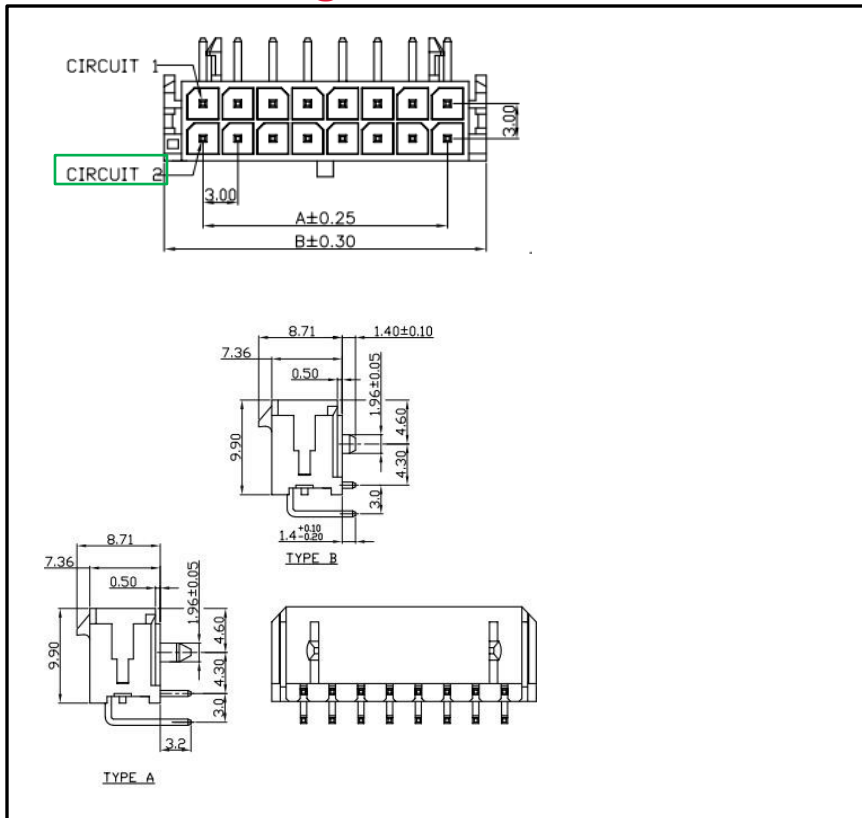
Engineering Change Notification

Product: Minitek PWR 3.0 HCC 10132449 R/A Header

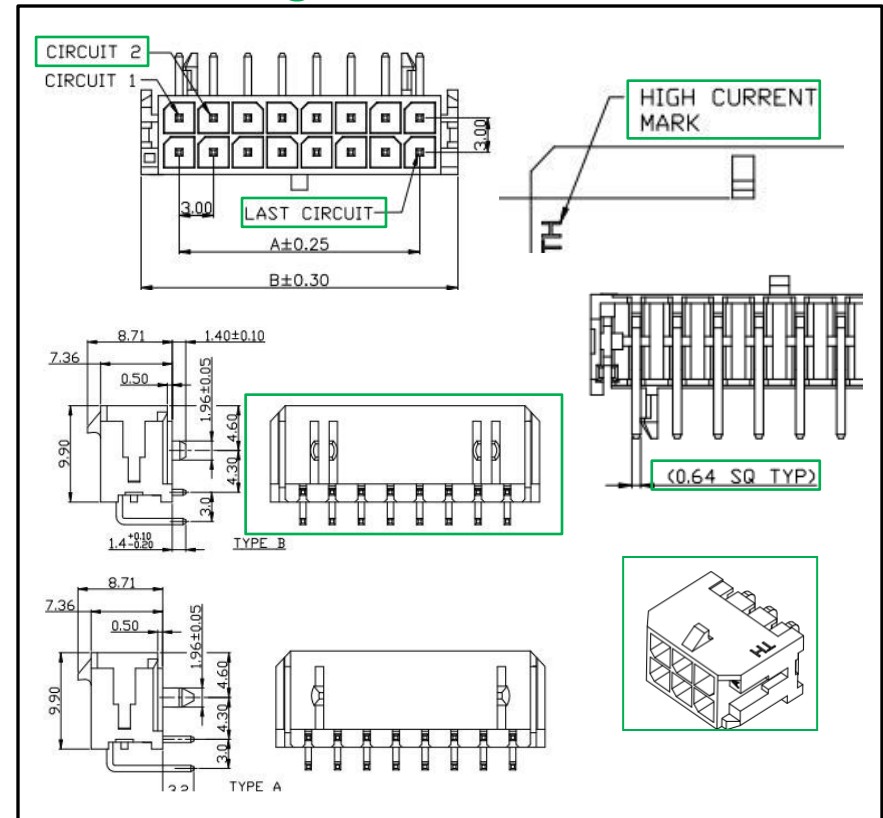


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Typographical errors in circuit numbering to be corrected
- High current mark note, contact dimension and isometric view added
- Separate view & sheet no-3 added for Type-B Connector

Implementation Date: 31st January 2022

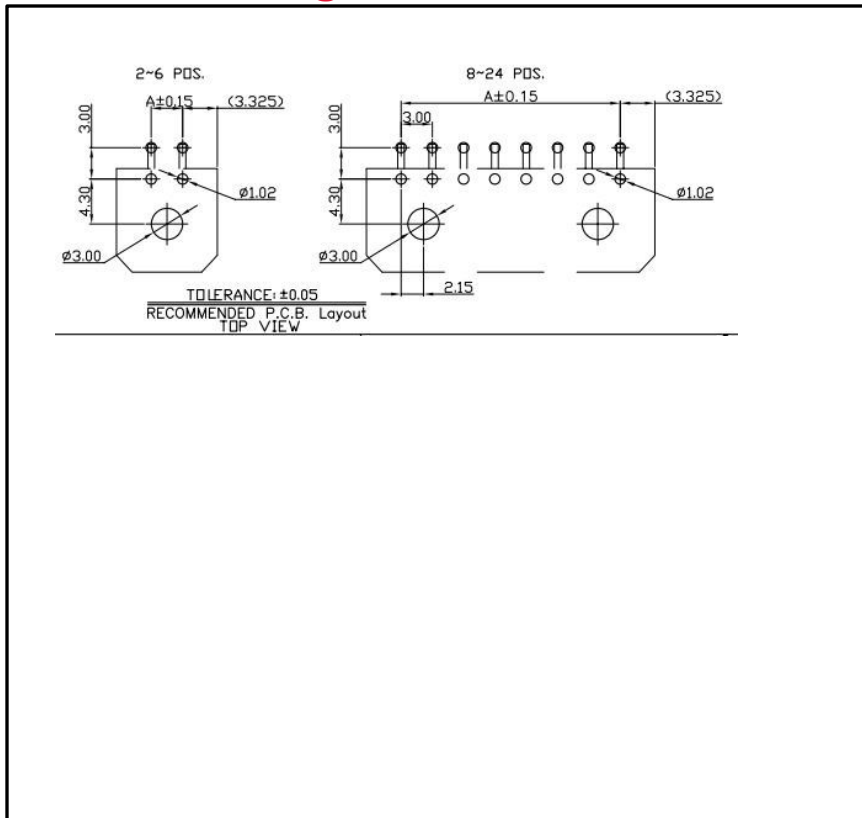
Engineering Change Notification

Product: Minitek PWR 3.0 HCC 10132449 R/A Header

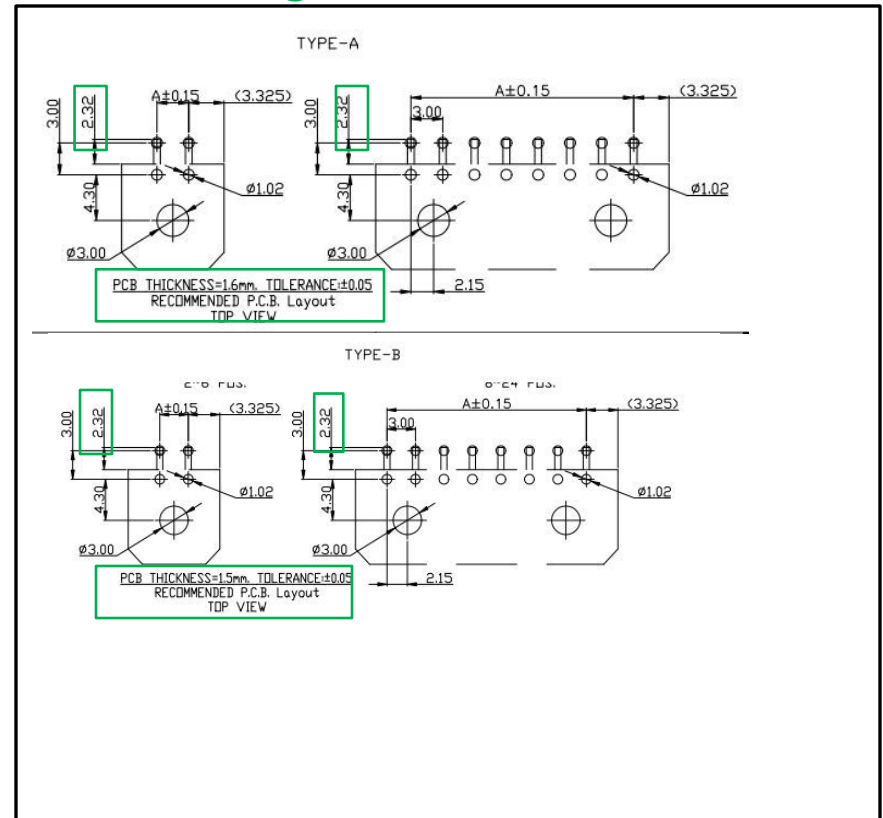


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



➤ PCB thickness and missing dimension added

Description of Change:

Implementation Date: 31st January 2022

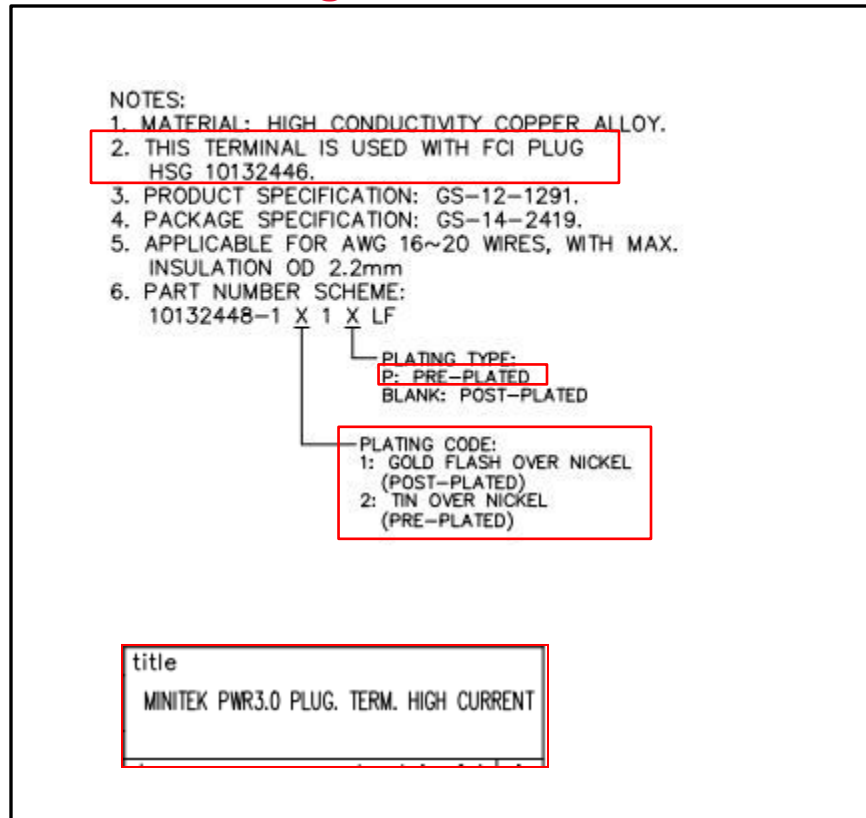
Engineering Change Notification

Product: Minitek PWR 3.0 HCC 10132448 Plug Terminal

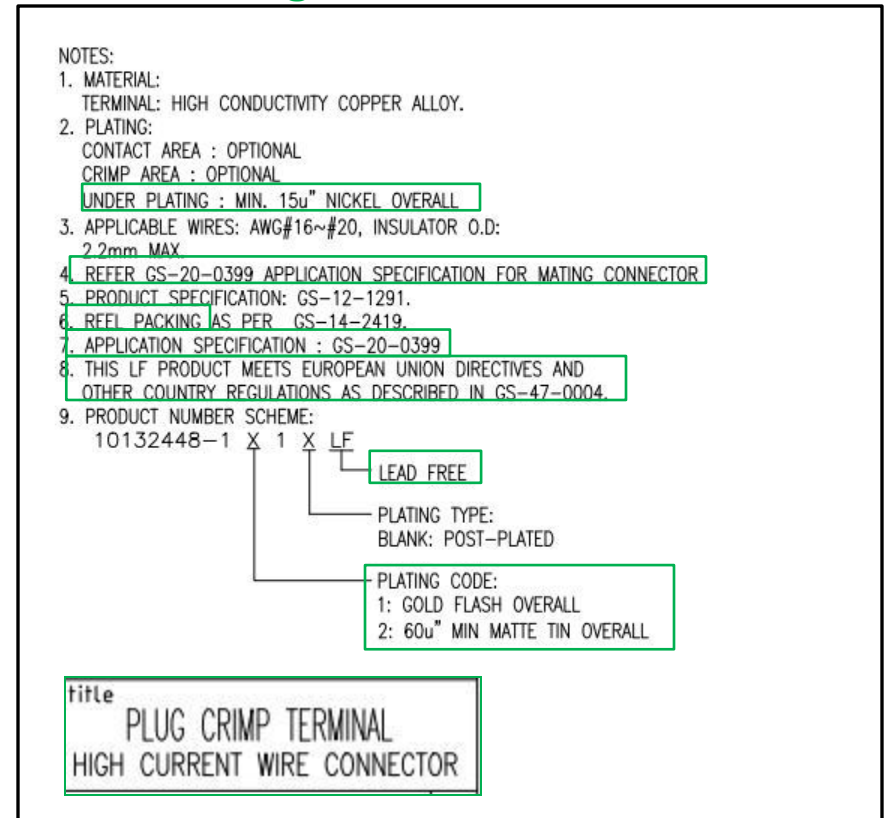
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Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Missing plating details added
- Drawing Description updated
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- LF note , Packing method & Application spec number added
- Pre-plated option removed from drawing

Implementation Date: 31st January 2022

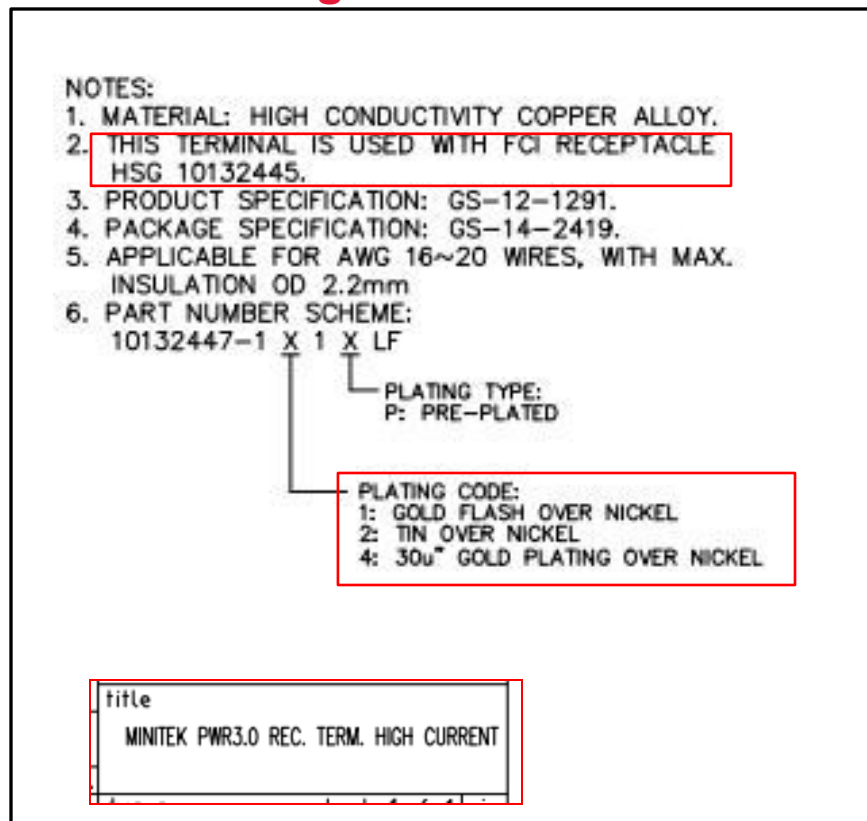
Engineering Change Notification

Product: Minitek PWR 3.0 HCC 10132447 Rec Terminal

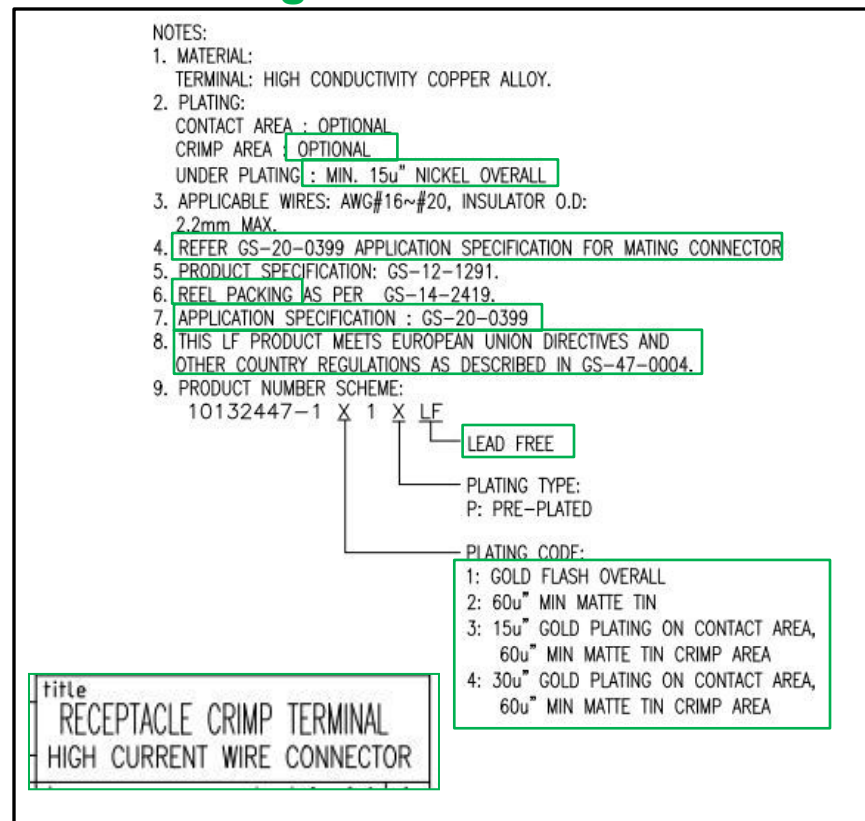


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Missing plating details added
- Drawing Description updated
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- LF note , Packing method & Application spec number added

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 HCC 10132446 Plug Housing



Site CCB No./Global PCN No. COK-005-22

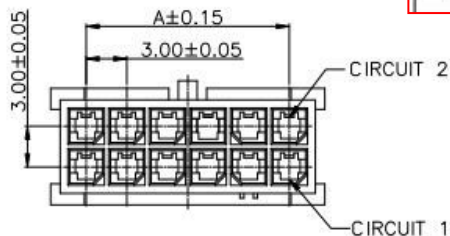
Before Change

NOTES:

1. MATERIAL: HIGH TEMP. THERMOPLASTIC, UL 94V-0, BLACK.
2. THIS HSG IS USED WITH FCI PLUG TERMINAL 10132448.
3. THIS PLUG MATES WITH FCI RECEPTACLE 10132445.
4. PRODUCT SPECIFICATION: GS-12-1291.
5. PACKAGE SPECIFICATION: GS-14-2419.
6. PART NUMBER SCHEME:
10132446- XX LF

POS. CODE:
02: 2 POS.
04: 4 POS.
S
24: 24 POS.

title
MINITEK PWR3.0 PLUG HSG
HIGH CURRENT



After Change

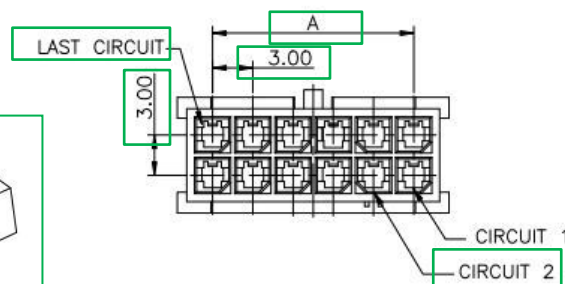
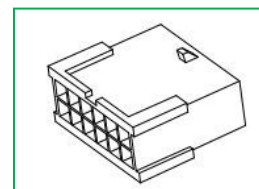
NOTE:

1. MATERIAL:
HOUSING: HIGH TEMP. NYLON, HALOGEN FREE
UL94V-0, COLOR:BLACK
2. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
3. PRODUCT SPECIFICATION: GS-12-1291.
4. PACKAGE SPECIFICATION: GS-14-2419 (BULK PACKED)
5. APPLICATION SPECIFICATION: GS-20-0399
6. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
7. PART NUMBER SCHEME:
10132446- XX LF

POS. CODE:
02: 2 POS.
04: 4 POS.
S
24: 24 POS.

LEAD FREE

title
MINITEK PWR3.0 PLUG. HSG
D/R HIGH CURRENT



Description of Change:

- Material description changed to high temp. Nylon
- Drawing Description updated
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- LF note , Halogen free, Packing method , Isometric View & Application spec number added
- Typographical errors in circuit numbering & Dimensions tolerance to be corrected

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 HCC 10132445 Rec Housing



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTES:

1. MATERIAL: HIGH TEMP. THERMOPLASTIC, UL 94V-0, BLACK.
2. THIS HSG IS USED WITH FCI RECEPTACLE TERMINAL 10132447.
3. THIS RECEPTACLE MATES WITH FCI PLUG 10132446, 10132449 & 10132450.
4. PRODUCT SPECIFICATION: GS-12-1291.
5. PACKAGE SPECIFICATION: GS-14-2419.
6. PART NUMBER SCHEME:
10132445- XX XLF

POS. CODE: —
02: 2 POS.
04: 4 POS.
S
24: 24 POS.

INSULATION COLOR,
SEE COLOR TABLE

COLOR TABLE	
BLANK	BLACK
0	WHITE
1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	PURPLE
8	GREY
9	DARK RED
C	CREAM

title

MINITEK PWR3.0 REC. HSG
HIGH CURRENT

After Change

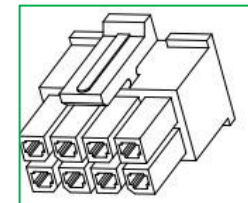
NOTE:

1. MATERIAL:
HOUSING: HIGH TEMP. NYLON, HALOGEN FREE
UL94V-0, COLOR: OPTIONS
2. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
3. PRODUCT SPECIFICATION: GS-12-1291.
4. PACKAGE SPECIFICATION: GS-14-2419 (BULK PACKED)
5. APPLICATION SPECIFICATION: GS-20-0399.
6. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
7. PART NUMBER SCHEME:
10132445- XX X LF

POS. CODE: —
02: 2 POS.
04: 4 POS.
S
24: 24 POS.

LEAD FREE

COLOR,
BLANK: BLACK



title

MINITEK PWR3.0 REC. HSG
D/R HIGH CURRENT

Description of Change:

- Material description changed to high temp. Nylon
- Drawing Description updated
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- LF note , Halogen free, Packing method , Isometric View & Application spec number added
- Color Options 0-C removed.

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 HCC 10132445 Rec Housing



Site CCB No./Global PCN No. COK-005-22

Before Change

DIMENSIONAL & PART NO. TABLE:

PART NO.	POS	A	B
10132445-02LF	2		3.85
10132445-04LF	4		6.85
10132445-06LF	6	6.0	9.85
10132445-08LF	8	9.0	12.85
10132445-10LF	10	12.0	15.85
10132445-12LF	12	15.0	18.85
10132445-14LF	14	18.0	21.85
10132445-16LF	16	21.0	24.85
10132445-18LF	18	24.0	27.85
10132445-20LF	20	27.0	30.85
10132445-22LF	22	30.0	33.85
10132445-24LF	24	33.0	36.85

After Change

DIMENSIONAL & PART NO. TABLE:

PART NO.	POS	A	B
10132445-02XLF	2		3.85
10132445-04XLF	4	3.0	6.85
10132445-06XLF	6	6.0	9.85
10132445-08XLF	8	9.0	12.85
10132445-10XLF	10	12.0	15.85
10132445-12XLF	12	15.0	18.85
10132445-14XLF	14	18.0	21.85
10132445-16XLF	16	21.0	24.85
10132445-18XLF	18	24.0	27.85
10132445-20XLF	20	27.0	30.85
10132445-22XLF	22	30.0	33.85
10132445-24XLF	24	33.0	36.85

Description of Change:

➤ Part number updated in table

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 10127721 Vertical header



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTE:

1. MATERIAL:
HOUSING: HIGH TEMP. THERMOPLASTIC,
UL94V-0, COLOR: SEE P/N SCHEME
CONTACT: COPPER ALLOY.
2. CONTACT FINISH: 50u" MIN. NICKEL UNDERPLATED.
OPTIONAL PLATING ON CONTACT AREA.
3. THIS PLUG MATES WITH FCI RECEPTACLE
WIRE CONNECTOR 10127716.
4. PRODUCT SPECIFICATION: GS-12-1177.
5. PACKAGE SPECIFICATION: GS-14-2359.
6. THE HOUSING WILL WITHSTAND EXPOSURE TO
260°C PEAK TEMPERATURE 10 SECONDS IN A
REFLOW OVEN.
7. PART NUMBER SCHEMATIC
10127721- XX X X X LF

POS. CODE:
02: 2 POS
04: 4 POS
S
24: 24 POS

PACKAGE:
BLANK: TRAY
P: TRAY WITH PE BAG
R: TAPE AND REEL WITH CAP
T: TAPE AND REEL WITHOUT CAP

GLOW WIRE COMPATIBLE:
BLANK: NON-COMPATIBLE, BLACK
G: COMPATIBLE, BLACK
N: NON-COMPATIBLE, NATURAL
S: COMPATIBLE, NATURAL

CONTACT CODE:
1: 3.20mm KINK TAIL, 100u" TIN OVERALL
2: 3.20mm KINK TAIL, GOLD FLASH OVERALL
3: 3.20mm KINK TAIL, 15u" Au ON CONTACT, TIN ON SOLDER TAIL
4: 3.20mm KINK TAIL, 30u" Au ON CONTACT, TIN ON SOLDER TAIL
5: 3.20mm STRAIGHT TAIL, G/F ON CONTACT, TIN ON SOLDER TAIL
6: 4.50mm STRAIGHT TAIL, 100u" TIN OVERALL

After Change

NOTE:

1. MATERIAL:
HOUSING: LCP, UL94V-0, HALOGEN FREE, COLOR: OPTION
CONTACT: COPPER ALLOY
METAL HARPOON: BRASS
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, 100u" MIN MATTE TIN ON SOLDER TAIL.
METAL HARPOON FINISH: 100u" MIN MATTE TIN OVER 50u" MIN. NICKEL
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
4. PRODUCT SPECIFICATION: GS-12-1177.
5. PACKAGE SPECIFICATION: GS-14-2359
6. APPLICATION SPECIFICATION: GS-20-0399
7. THE HOUSING WILL WITHSTAND EXPOSURE TO
260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
8. THE HOUSING WILL WITHSTAND EXPOSURE TO
235°C PEAK TEMPERATURE FOR 5 SECONDS IN A WAVE SOLDER
9. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES
AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
10. PART NUMBER SCHEME:
10127721- XX X X X LF

POS. CODE:
02: 2 POS
04: 4 POS
S
24: 24 POS

LEAD FREE

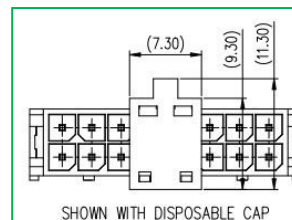
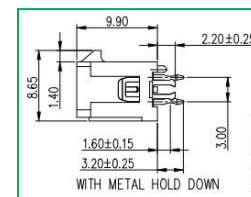
PACKAGE:
BLANK: TRAY
P: TRAY WITH PE BAG
R: TAPE AND REEL WITH CAP
T: TAPE AND REEL WITHOUT CAP

ACCESSORIES:
BLANK: WITHOUT METAL HOLD DOWN
H: WITH METAL HOLD DOWN

GLOW WIRE COMPATIBLE:
BLANK: NON-COMPATIBLE, BLACK
G: COMPATIBLE, BLACK
N: NON-COMPATIBLE, NATURAL
S: COMPATIBLE, NATURAL

CONTACT CODE:

- 1: 3.20mm KINK TAIL, 100u" Min. MATTE TIN OVERALL
- 2: 3.20mm KINK TAIL, GOLD FLASH OVERALL
- 3: 3.20mm KINK TAIL, 15u" Min Au ON CONTACT AREA,
100u" Min MATTE TIN ON SOLDER TAIL
- 4: 3.20mm KINK TAIL, 30u" Au ON CONTACT AREA,
100u" Min MATTE TIN ON SOLDER TAIL
- 5: 3.20mm STRAIGHT TAIL, G/F ON CONTACT,
100u" Min MATTE TIN ON SOLDER TAIL
- 6: 4.50mm STRAIGHT TAIL, 100u" Min MATTE TIN OVERALL
- 7: 3.20mm STRAIGHT TAIL, 100u" Min MATTE TIN OVERALL



Description of Change:

- Material description changed to LCP
- Plating thickness and Finish added
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- Application spec number, Halogen free note, Wave soldering details & LF note are added
- Part number logic updated to add harpoon option. With metal harpoon and pickup cap added in drawing

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 10127721 Vertical header



Site CCB No./Global PCN No. COK-005-22

Before Change

P/N	POS	A	B
10127721-02XXXLF	2	6.60	--
10127721-04XXXLF	4	9.60	3.00
10127721-06XXXLF	6	12.60	6.00
10127721-08XXXLF	8	15.60	9.00
10127721-10XXXLF	10	18.60	12.00
10127721-12XXXLF	12	21.60	15.00
10127721-14XXXLF	14	24.60	18.00
10127721-16XXXLF	16	27.60	21.00
10127721-18XXXLF	18	30.60	24.00
10127721-20XXXLF	20	33.60	27.00
10127721-22XXXLF	22	36.60	30.00
10127721-24XXXLF	24	39.60	33.00

title
MINITEK PWR3.0 WTB HEADER
DUAL ROW, VERTICAL DIP TYPE

After Change

P/N	POS	A	B
10127721-02XXXXLF	2	6.60	--
10127721-04XXXXLF	4	9.60	3.00
10127721-06XXXXLF	6	12.60	6.00
10127721-08XXXXLF	8	15.60	9.00
10127721-10XXXXLF	10	18.60	12.00
10127721-12XXXXLF	12	21.60	15.00
10127721-14XXXXLF	14	24.60	18.00
10127721-16XXXXLF	16	27.60	21.00
10127721-18XXXXLF	18	30.60	24.00
10127721-20XXXXLF	20	33.60	27.00
10127721-22XXXXLF	22	36.60	30.00
10127721-24XXXXLF	24	39.60	33.00

title
DUAL ROW, VERTICAL DIP TYPE
MINITEK 3.0 STANDARD HEADER

Description of Change:

- Part number updated in table
- Contact dimension updated as reference
- Drawing description updated
- Isometric view and missing dimensions added

Implementation Date: 31st January 2022

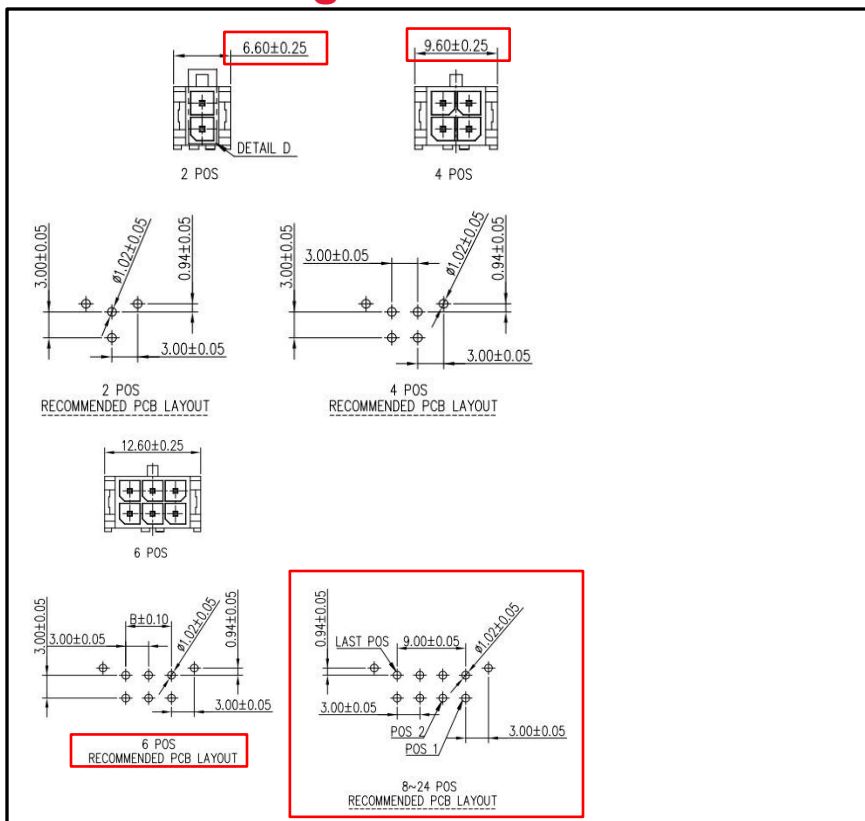
Engineering Change Notification

Product: Minitek PWR 3.0 10127721 Vertical header

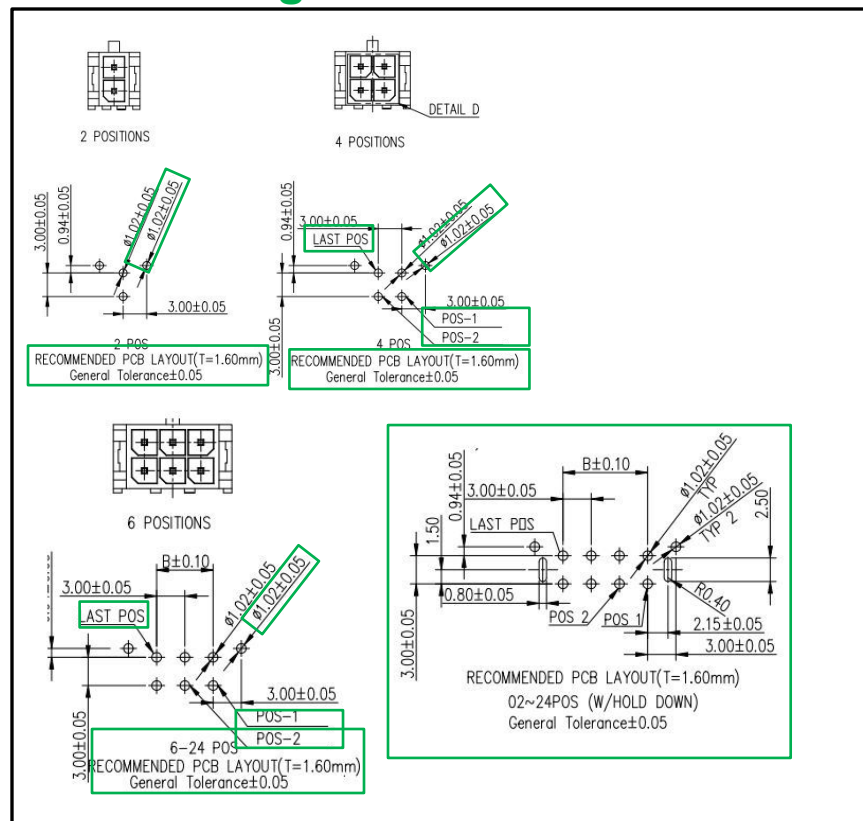


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Repeated dimension removed from drawing
- Missing PCB details added (hole dimension, Pos. numbering & PCB thickness)
- With metal harpoon PCB layout added
- Separate 8-24Pos PCB layout removed.

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 10127720 R/A header



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTE:

1. MATERIAL:
HOUSING: LCP, UL94V-0, COLOR: BLACK
CONTACT: COPPER ALLOY.
2. CONTACT FINISH: 50u" MIN. NICKEL UNDERPLATED.
OPTIONAL PLATING ON CONTACT AREA.
3. THIS PLUG MATES WITH FCI RECEPTACLE WIRE CONNECTOR 10127716.
4. PRODUCT SPECIFICATION: GS-12-1177.
5. PACKAGE SPECIFICATION: GS-14-2359.
6. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE 10 SECONDS IN A REFLOW OVEN.
7. PART NUMBER SCHEME:
10127720- XX X X X X LF

POS. CODE:
02: 2 POS
04: 4 POS
24: 24 POS

OPTIONAL PACKAEGS:
BLANK: TRAY
R: TAPE AND REEL

OPTIONAL PEGS:
BLANK: WITH PEGS
N: NO PEG, ONLY FOR 4,8,10 POS

PLATING CODE:

- 1: 100u" TIN
- 2: GOLD FLASH
- 3: 15u" Au
- 4: 30u" Au
- 5: 160u" MATTE TIN OVER 50u" NICKEL

GLOW WIRE COMPATIBLE:
BLANK: E4711, NON-COMPATIBLE
G: E1301, GLOW WIRE COMPATIBLE

After Change

NOTE:

1. MATERIAL:
HOUSING: LCP, UL94V-0, HALOGEN FREE, COLOR: BLACK
CONTACT: COPPER ALLOY.
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA.TIN ON SOLDER TAIL.
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
4. PRODUCT SPECIFICATION: GS-12-1177.
5. PACKAGE SPECIFICATION: GS-14-2359.
6. APPLICATION SPECIFICATION: GS-20-0399
7. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
8. THE HOUSING WILL WITHSTAND EXPOSURE TO 235°C PEAK TEMPERATURE FOR 5 SECONDS IN A WAVE SOLDER
9. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.
10. PART NUMBER SCHEME:
10127720- XX X X X X LF

POS. CODE:
02: 2 POS
04: 4 POS
24: 24 POS

LEAD FREE

OPTIONAL PACKAEGS:
BLANK: TRAY
R: TAPE AND REEL

OPTIONAL PEGS:
BLANK: WITH PEGS
N: NO PEG, ONLY FOR 4,8,10 POS

PLATING CODE:

- 1: 100u" Min. MATTE TIN OVERALL
- 2: GOLD FLASH OVERALL
- 3: 15u"Min Au ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL
- 4: 30u" Au ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL
- 5: 160u" Min MATTE TIN OVERALL

GLOW WIRE COMPATIBLE:
BLANK: NON-COMPATIBLE
G: GLOW WIRE COMPATIBLE

Description of Change:

- Missing Plating thickness and Finish added
- Used with mating connector part number details removed from drawing. since it is mentioned in application spec.
- Application spec number , Halogen free note, Wave soldering details & LF note are added

Implementation Date: 31st January 2022

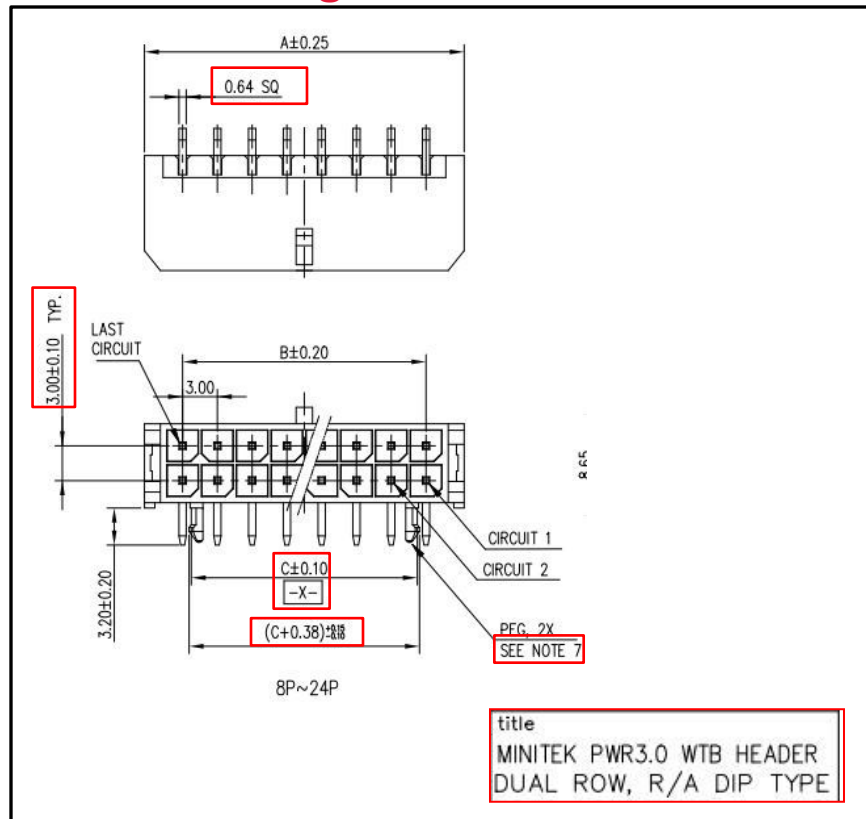
Engineering Change Notification

Product: Minitek PWR 3.0 10127720 R/A header

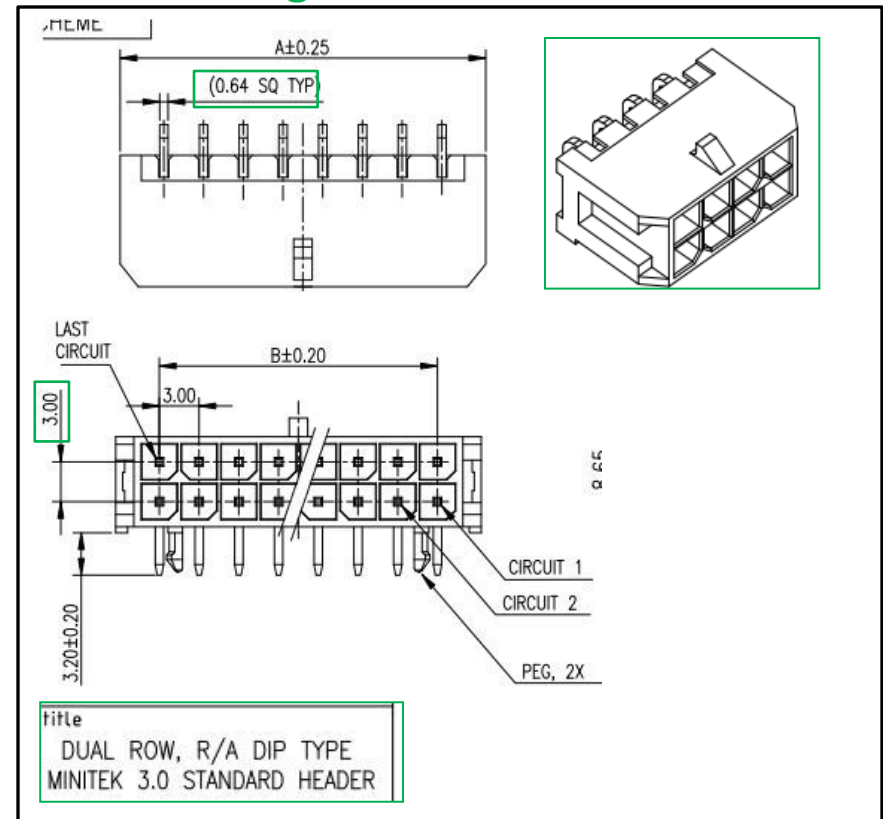


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Drawing description updated
- Isometric view added
- Contact dimension updated as reference
- Typographical error in dimensions , tolerance & note to be corrected
- Dimension C removed from this view and added in separate view

Implementation Date:

31st January 2022

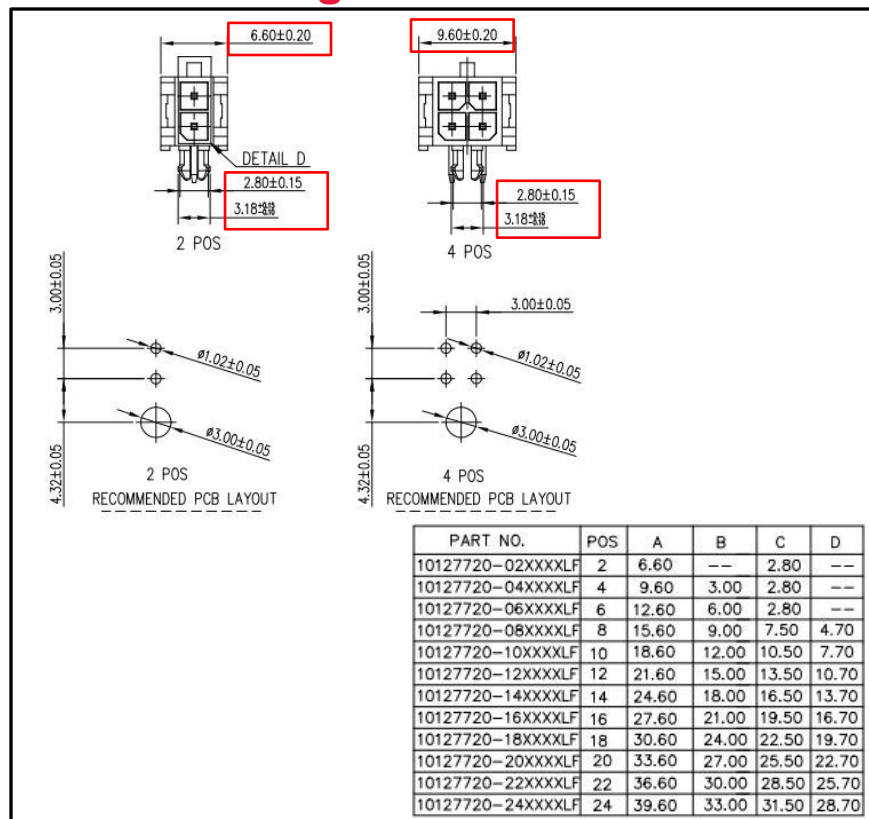
Engineering Change Notification

Product: Minitek PWR 3.0 10127720 R/A header

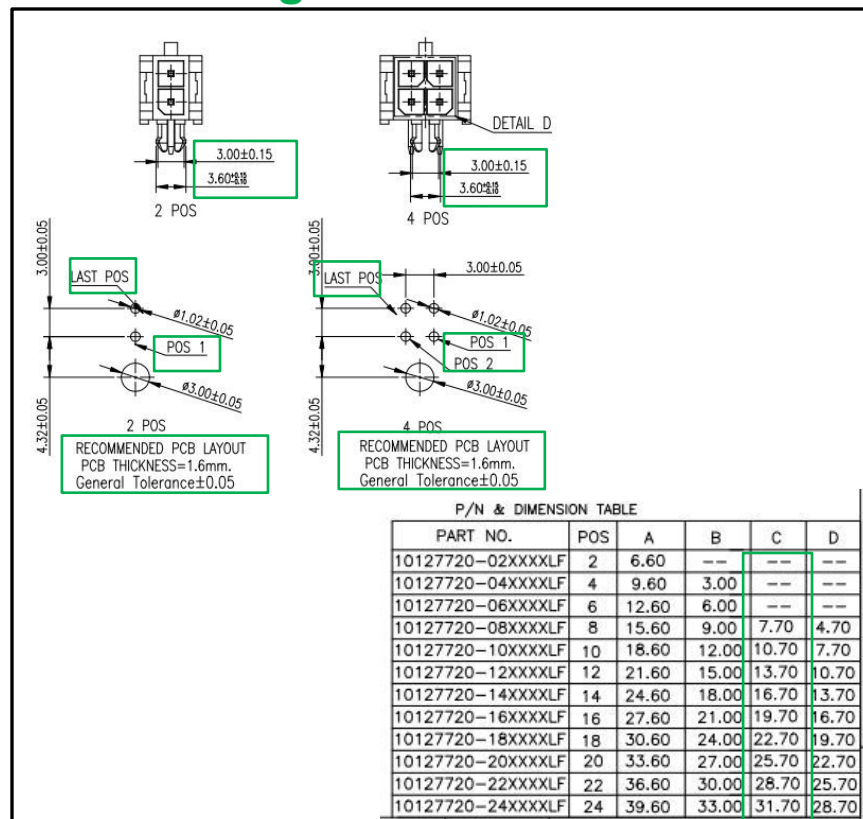


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Repeated dimension removed from drawing
- Missing PCB details Pos. numbering & PCB thickness are added
- Typographical error in dimensions C to be corrected in table

Implementation Date: 31st January 2022

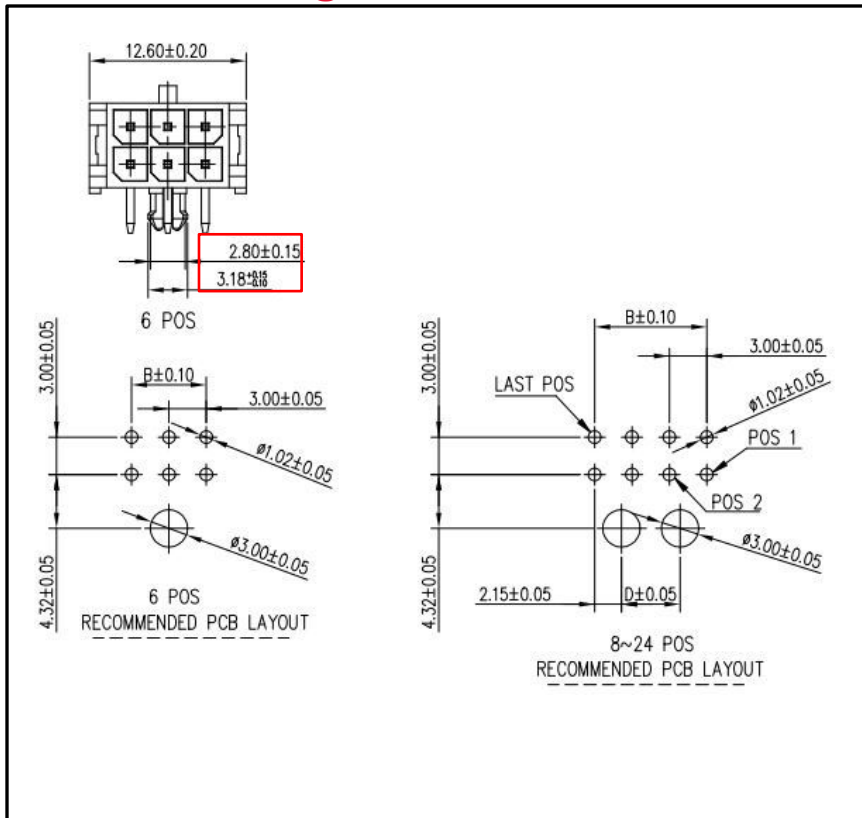
Engineering Change Notification

Product: Minitek PWR 3.0 10127720 R/A header

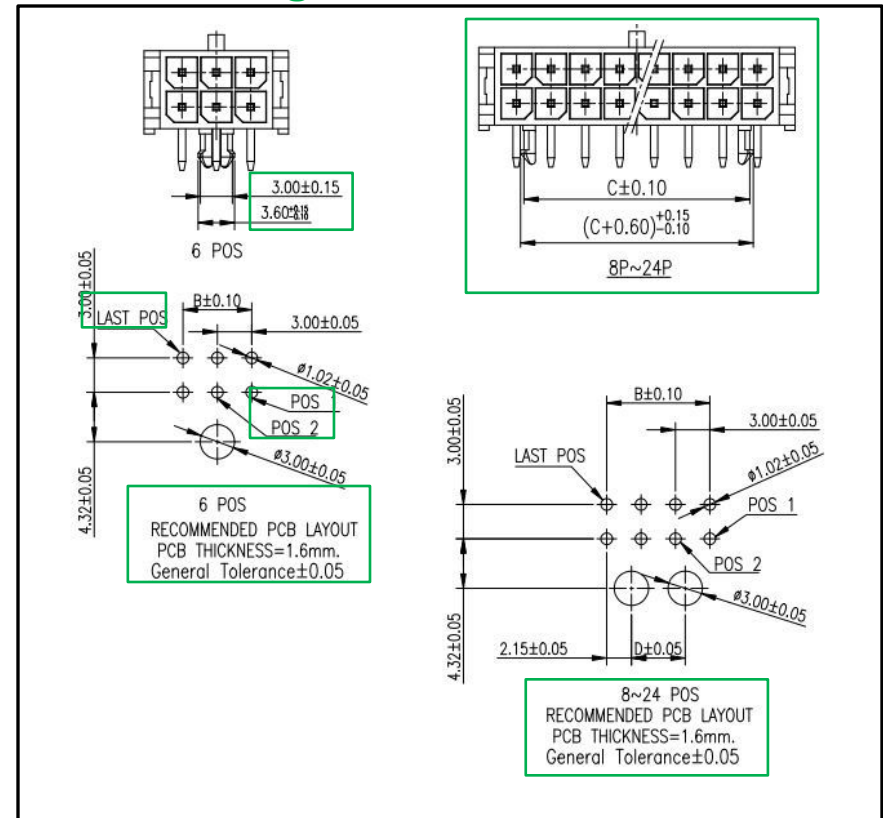


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

- Repeated dimension removed from drawing
- Missing PCB details Pos. numbering & PCB thickness added
- Typographical error in dimensions to be corrected
- Separate view added for 8P-24 Positions

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 10127719 plug terminal



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTES:

1. TERMINAL MATERIAL: PHBR.
2. PLATING: MIN. 30u" NICKEL OVERALL UNDERPLATING.
OPTIONAL PLATING ON CONTACT AREA.
3. PLATE TYPE: OPTIONS.
4. Q'TY/REEL: 10,000 PCS
5. APPLICABLE WIRES: AWG#30~#20, INSULATOR
O.D: 1.27~1.85mm.
6. THIS TERMINAL IS USED WITH FCI
PLUG HSG 10127717.
7. PRODUCT SPECIFICATION: GS-12-1177.
8. PACKAGE SPECIFICATION: GS-14-2359.
9. PRODUCT NUMBER SCHEME:

10127719-00 X X LF

PLATING TYPE
P: PRE-PLATED
BLANK: POST-PLATED

PLATING CODE
1: 80u" TIN OVERALL
2: GOLD FLASH
3: 15u" Au
4: 30u" Au

After Change

NOTES:

1. MATERIAL:
TERMINAL: PHOSPHORUS BRONZE
2. PLATING:
CONTACT AREA : OPTIONAL
CRIMP AREA : 80u" MIN. BRIGHT TIN
UNDER PLATING : MIN. 30u" NICKEL OVERALL
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR
4. PRODUCT SPECIFICATION: GS-12-1177.
5. REEL PACKING SPECIFICATION: GS-14-2359.
6. APPLICATION SPECIFICATION : GS-20-0399
7. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND
OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
8. PRODUCT NUMBER SCHEME:

10127719-X 0 X X LF

APPLICABLE WIRE
0: 20-24 AWG

PLATING TYPE
P: PRE-PLATED
BLANK: POST-PLATED

PLATING CODE
1: 80u" BRIGHT TIN OVERALL
2: GOLD FLASH (POST-PLATED).
3: 15u" Au (POST-PLATED)
4: 30u" Au (POST-PLATED)

8)

Description of Change:

Reel qty removed from drawing, since it is mentioned in packing specification

Application Specification details added

Part number logic updated

The Terminal used with receptacle housing part number removed from drawing. since it is mentioned in application spec

LF note & missing plating details are added

AWG range changed from 20-30 to 20-24

Preplated plating removed for Au options

Implementation Date:

31st January 2022

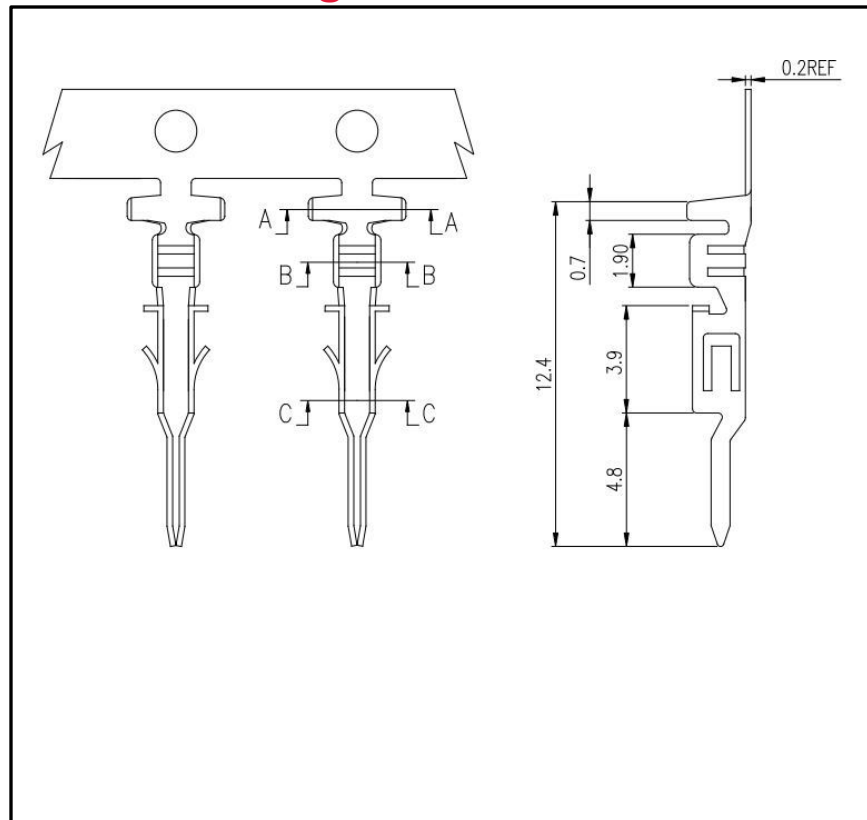
Engineering Change Notification

Product: Minitek PWR 3.0 10127719 plug terminal

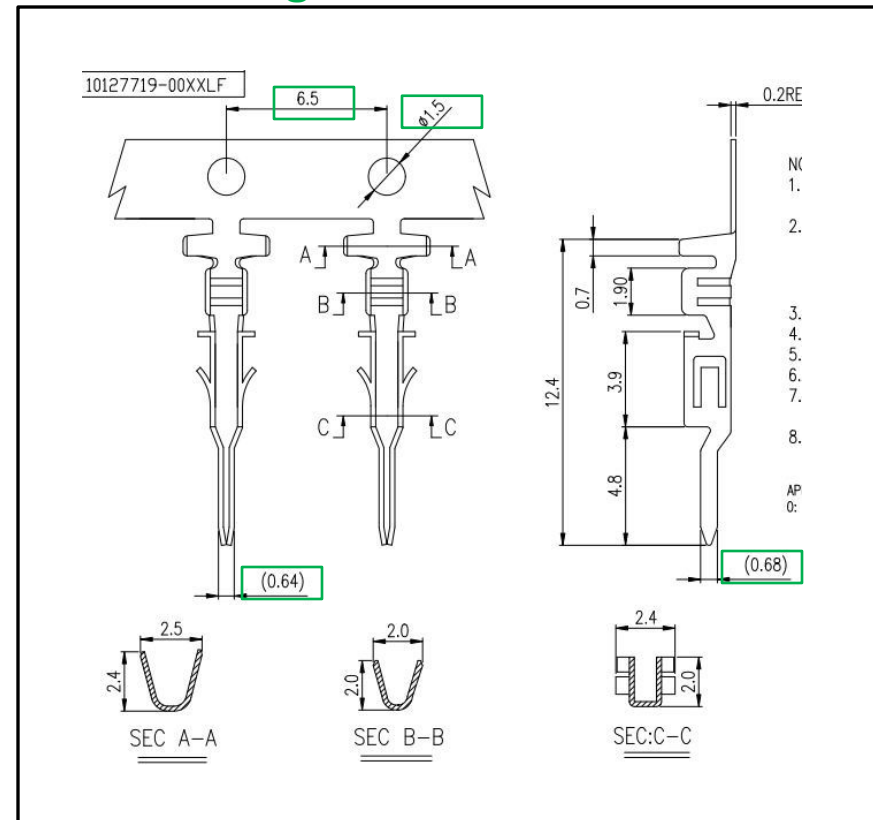


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



➤ Missing dimensions added

Description of Change:

Implementation Date: 31st January 2022

Engineering Change Notification

Product: Minitek PWR 3.0 10127717 Plug Housing



Site CCB No./Global PCN No. COK-005-22

Before Change

NOTE:

1. MATERIAL: NYLON 66, UL 94V-0, BLACK.
2. THIS HSG IS USED WITH FCI PLUG TERMINAL 10127719.
3. THIS PLUG MATES WITH FCI RECEPTACLE WIRE CONNECTOR 10127716.
4. PRODUCT SPECIFICATION: GS-12-1177.
5. PACKAGE SPECIFICATION: GS-14-2359.
4. PART NUMBER SCHEME:
10127717- XX LF

POS. CODE:
02: 2 POS.
04: 4 POS.
S
24: 24 POS.

After Change

NOTE:

1. MATERIAL:
HOUSING: NYLON 66, HALOGEN FREE
UL94V-0, COLOR: BLACK
2. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
3. PRODUCT SPECIFICATION: GS-12-1177.
4. PACKAGE SPECIFICATION: GS-14-2359 (BULK PACKED)
5. APPLICATION SPECIFICATION: GS-20-0399.
6. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
7. PART NUMBER SCHEME:
10127717- XX LF

POS. CODE:
02: 2 POS.
04: 4 POS.
S
24: 24 POS.

LEAD FREE

DIMENSIONAL & PART NO. TABLE

PART NO.	POS	A	B
10127717-02LF	2		3.9
10127717-04LF	4	3.0	6.9

Description of Change:

- Halogen free note & Application specification details added
- Mated header and terminal part number removed from drawing, since it mentioned in application specification
- LF note & Packing type added
- APCI Template updated

Implementation Date: 31st January 2022

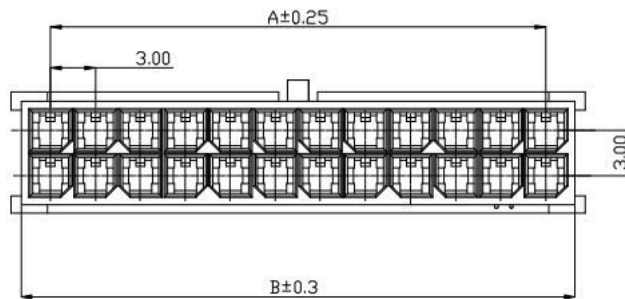
Engineering Change Notification

Product: Minitek PWR 3.0 10127717 Plug Housing

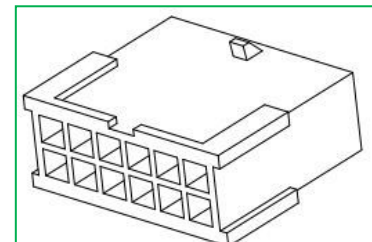
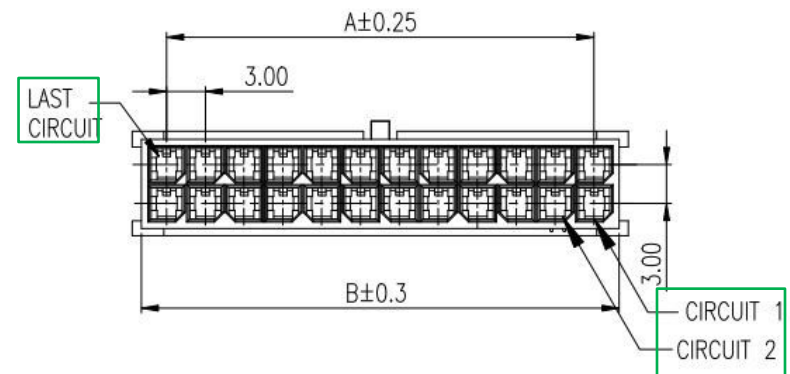


Site CCB No./Global PCN No. COK-005-22

Before Change



After Change



Description of Change:

➤ Circuit numbering & Isometric View added

Implementation Date: 31st January 2022



Amphenol
FCi

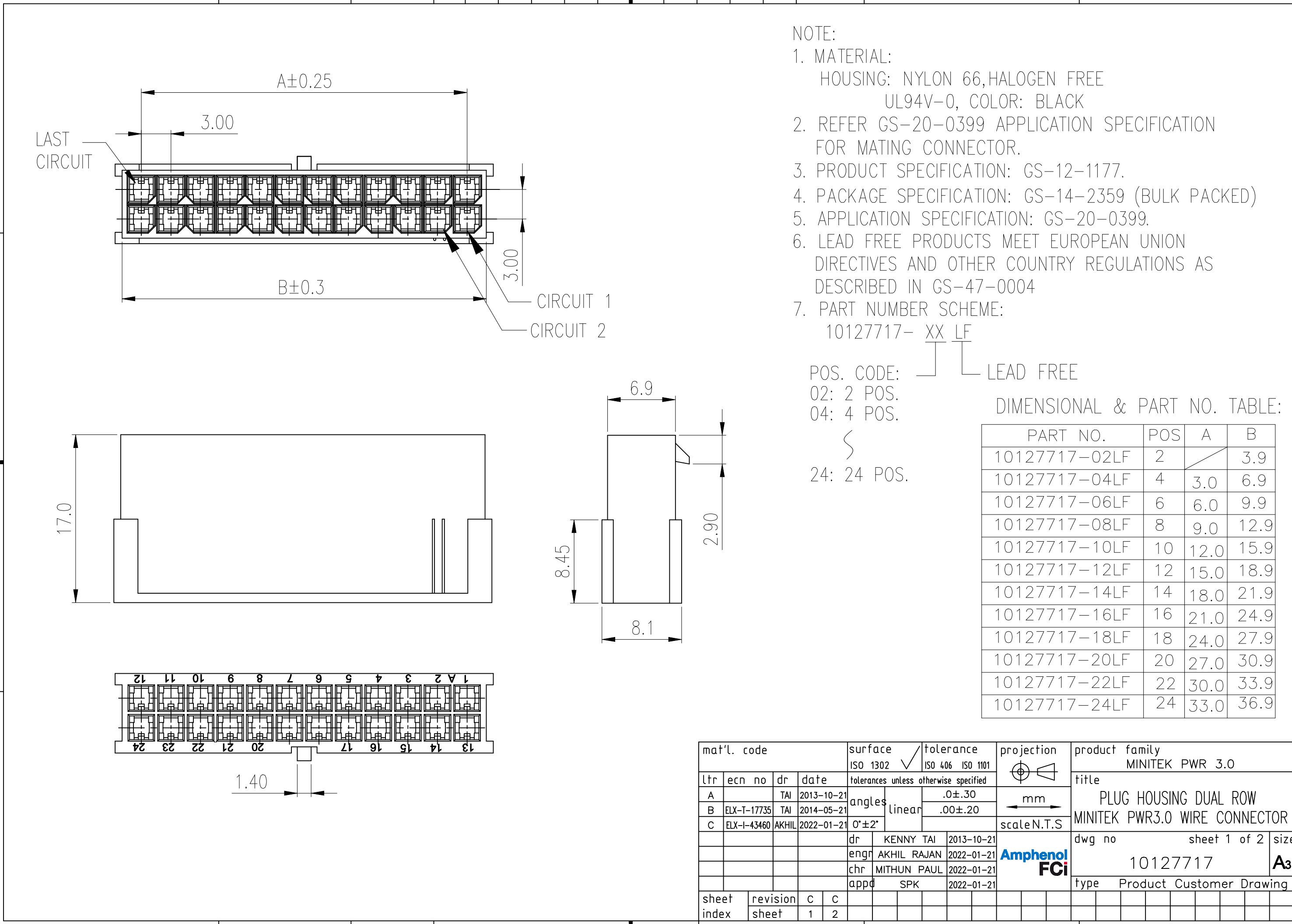
© 2016 AFCI

A

B

C

D



NOTE:

1. MATERIAL:
HOUSING: NYLON 66,HALOGEN FREE
UL94V-0, COLOR: BLACK
2. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
3. PRODUCT SPECIFICATION: GS-12-1177.
4. PACKAGE SPECIFICATION: GS-14-2359 (BULK PACKED)
5. APPLICATION SPECIFICATION: GS-20-0399.
6. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
7. PART NUMBER SCHEME:
10127717- XX LF

POS. CODE: LEAD FREE

02: 2 POS.

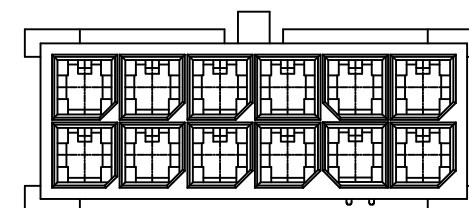
04: 4 POS.

24: 24 POS.

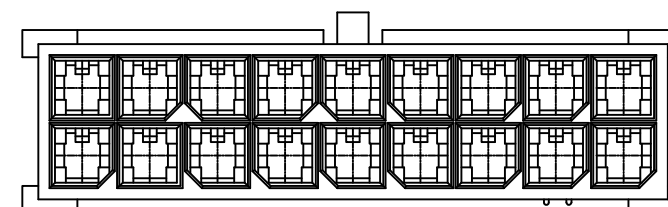
DIMENSIONAL & PART NO. TABLE:

PART NO.	POS	A	B
10127717-02LF	2	3.0	3.9
10127717-04LF	4	3.0	6.9
10127717-06LF	6	6.0	9.9
10127717-08LF	8	9.0	12.9
10127717-10LF	10	12.0	15.9
10127717-12LF	12	15.0	18.9
10127717-14LF	14	18.0	21.9
10127717-16LF	16	21.0	24.9
10127717-18LF	18	24.0	27.9
10127717-20LF	20	27.0	30.9
10127717-22LF	22	30.0	33.9
10127717-24LF	24	33.0	36.9

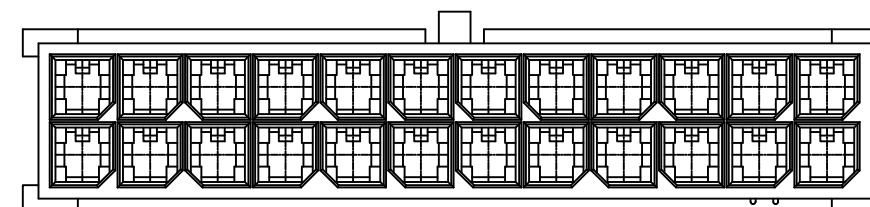
mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family MINITEK PWR 3.0													
ltr	ecn no		dr	date		tolerances unless otherwise specified						title											
A			TAI	2013-10-21		angles	linear	.0±.30				mm ←→		PLUG HOUSING DUAL ROW MINITEK PWR3.0 WIRE CONNECTOR									
B	ELX-T-17735		TAI	2014-05-21				.00±.20															
C	ELX-I-43460		AKHIL	2022-01-21		0°±2°						scale N.T.S											
						dr	KENNY TAI		2013-10-21		Amphenol FCi		dwg no				sheet 1 of 2				size		
						enr	AKHIL RAJAN		2022-01-21				10127717				A3						
						chr	MITHUN PAUL		2022-01-21														
						appd	SPK		2022-01-21														
sheet index		revision sheet		C	C																		
				1	2																		



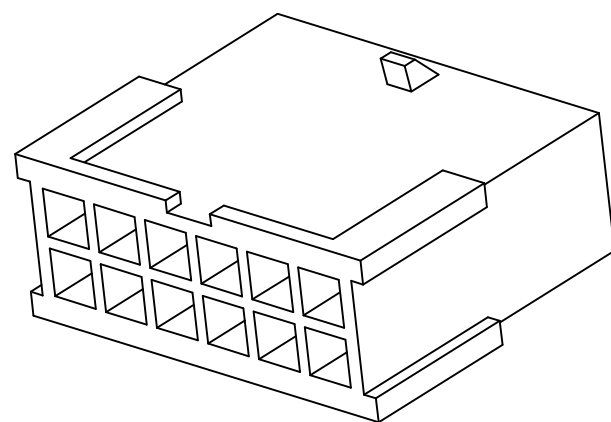
12 POS

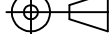


18 POS

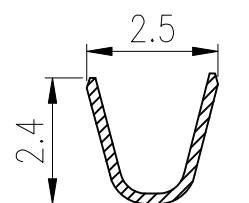
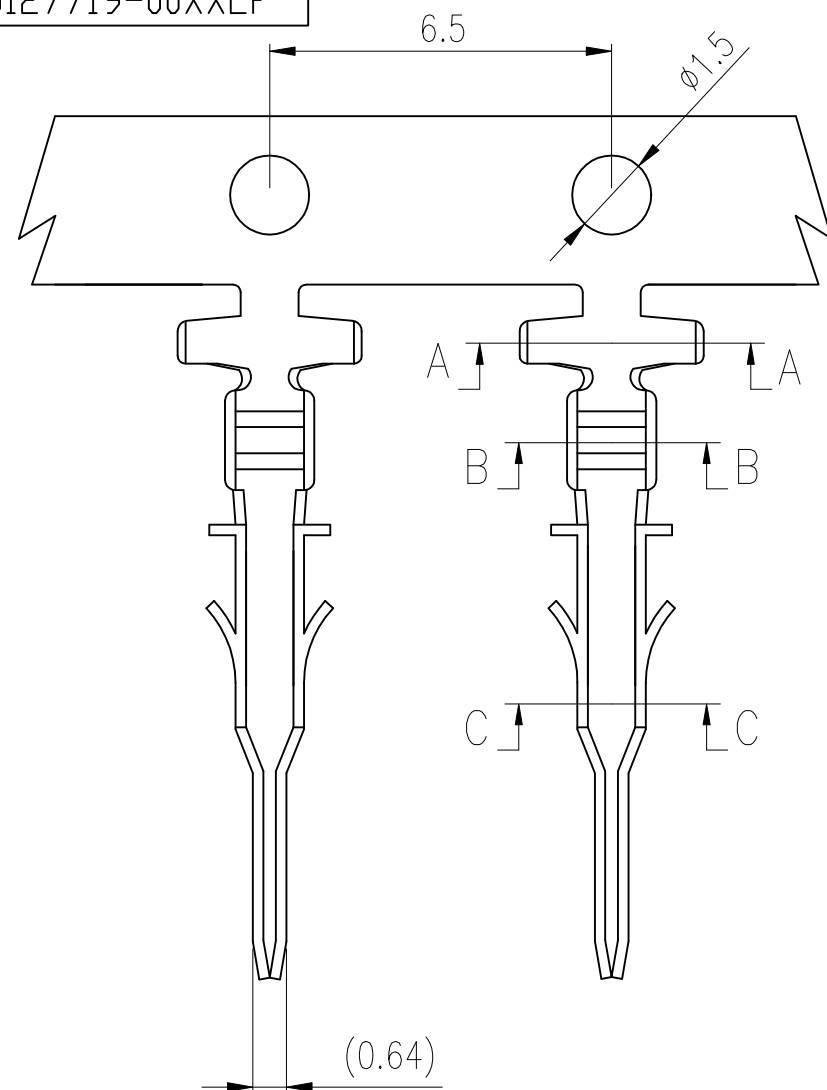


24 POS

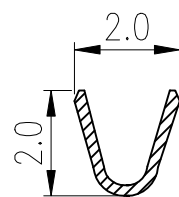


mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family MINITEK PWR 3.0													
ltr		ecn no		dr		date		tolerances unless otherwise specified		 mm scale N.T.S		title PLUG HOUSING DUAL ROW MINITEK PWR3.0 WIRE CONNECTOR											
								angles linear														.0±.30	
								0°±2°														.00±.20	
						dr		KENNY TAI		2013-10-21		dwg no sheet 2 of 2 size 10127717 A3											
						engr		AKHIL RAJAN		2022-01-21													
						chr		MITHUN PAUL		2022-01-21													
						appd		SPK		2022-01-21													
sheet index		revision sheet		C 1		C 2																	

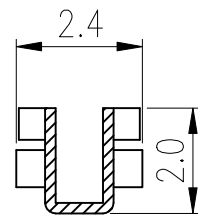
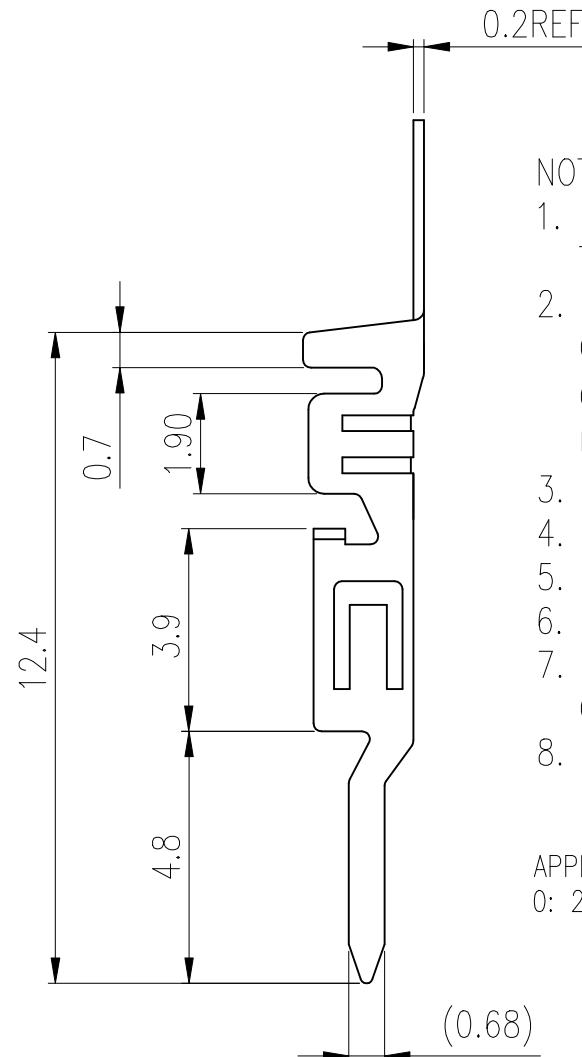
PRODUCT NUMBER
10127719-00XXLF



SEC A-A



SEC B-B



SEC: C-C

NOTES:

1. MATERIAL:
TERMINAL: PHOSPHORUS BRONZE
2. PLATING:
CONTACT AREA : OPTIONAL
CRIMP AREA : 80μ" MIN. BRIGHT TIN
UNDER PLATING : MIN. 30u" NICKEL OVERALL
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR
4. PRODUCT SPECIFICATION: GS-12-1177.
5. REEL PACKING SPECIFICATION: GS-14-2359.
6. APPLICATION SPECIFICATION : GS-20-0399
7. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND
OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
8. PRODUCT NUMBER SCHEME:
10127719-X 0 X X LF

APPLICABLE WIRE
0: 20-24 AWG

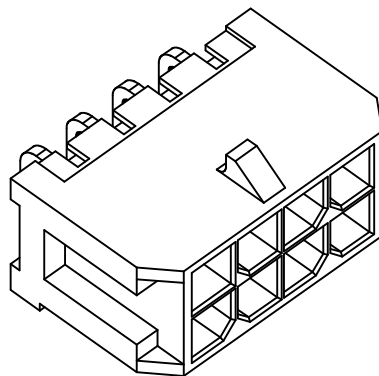
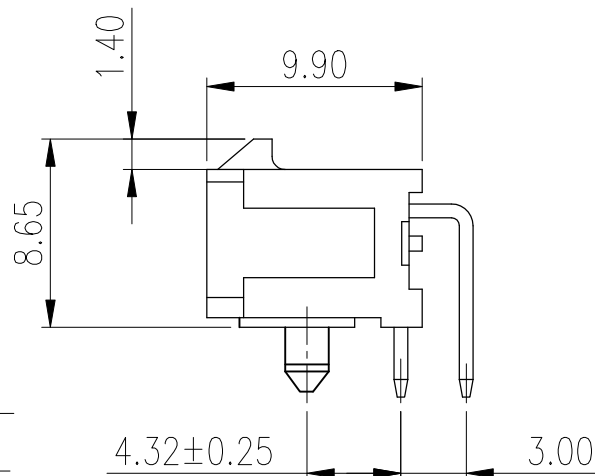
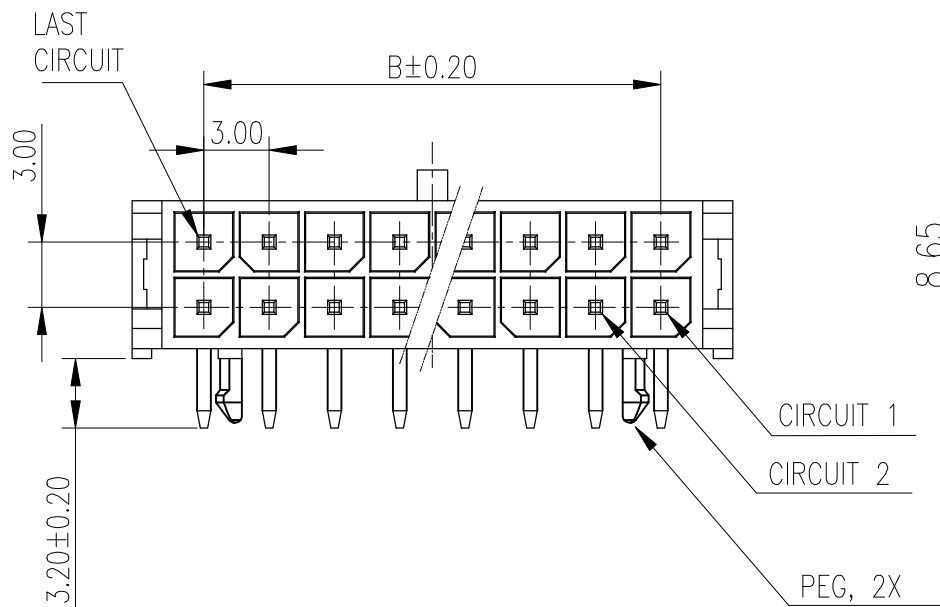
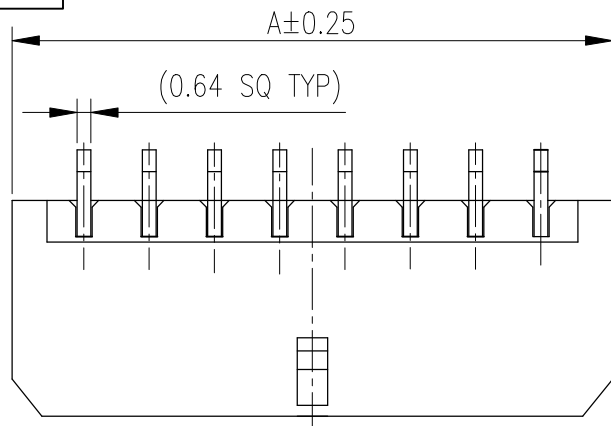
PLATING TYPE
P: PRE-PLATED
BLANK: POST-PLATED

PLATING CODE
1: 80u" BRIGHT TIN OVERALL
2: GOLD FLASH (POST-PLATED).
3: 15u" Au (POST-PLATED)
4: 30u" Au (POST-PLATED)

mat'l. code				surface	tolerance		projection	product family			
				ISO 1302	ISO 406	ISO 1101		MINITEK PWR 3.0			
ltr	ecn no	dr	date	tolerances unless otherwise specified				title			
A		TAI	2013-10-21	angles	linear	.0±.30	mm	PLUG CRIMP TERMINAL FOR MINITEK PWR3.0 WIRE CONNECTOR			
B	ELX-T-17032	TAI	2014-02-25			.00±.20					
C	ELX-T-18006	TAI	2014-06-19								
D	ELX-T-24280	TAI	2016-06-13	dr	KENNY TAI	2013-10-21	scale N.T.S.	dwg no		sheet 1 of 1	size
E	ELX-I-43461	AKHIL	2022-01-21	engr	AKHIL RAJAN	2022-01-21		10127719			A3
				chr	MITHUN PAUL	2022-01-21		type		Product Customer Drawing	
				app	SPK	2022-01-21					
sheet index	revision sheet	E	1								

PRODUCT NUMBER

SEE P/N SCHEME



NOTE:

1. MATERIAL:
HOUSING: LCP, UL94V-0, HALOGEN FREE, COLOR: BLACK
CONTACT: COPPER ALLOY.
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, TIN ON SOLDER TAIL.
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
4. PRODUCT SPECIFICATION: GS-12-1177.
5. PACKAGE SPECIFICATION: GS-14-2359.
6. APPLICATION SPECIFICATION: GS-20-0399
7. THE HOUSING WILL WITHSTAND EXPOSURE TO
260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
8. THE HOUSING WILL WITHSTAND EXPOSURE TO
235°C PEAK TEMPERATURE FOR 5 SECONDS IN A WAVE SOLDER
9. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES
AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
10. PART NUMBER SCHEME:

10127720- XX X X X X LF

POS. CODE:

02: 2 POS

04: 4 POS

5

24: 24 POS

LEAD FREE

OPTIONAL PACKAEGS:

BLANK: TRAY

R: TAPE AND REEL

OPTIONAL PEGS:

BLANK: WITH PEGS

N: NO PEG, ONLY FOR 4,8,10 POS

GLOW WIRE COMPATIBLE:

BLANK: NON-COMPATIBLE

G: GLOW WIRE COMPATIBLE

PLATING CODE:

1: 100u" Min. MATTE TIN OVERALL

2: GOLD FLASH OVERALL

3: 15u"Min Au ON CONTACT AREA,

100u"Min MATTE TIN ON TAIL

4: 30u" Au ON CONTACT AREA,

100u"Min MATTE TIN ON TAIL

5: 160u" Min MATTE TIN OVERALL

P/N & DIMENSION TABLE

PART NO.	POS	A	B	C	D
10127720-02XXXXLF	2	6.60	--	--	--
10127720-04XXXXLF	4	9.60	3.00	--	--
10127720-06XXXXLF	6	12.60	6.00	--	--
10127720-08XXXXLF	8	15.60	9.00	7.70	4.70
10127720-10XXXXLF	10	18.60	12.00	10.70	7.70
10127720-12XXXXLF	12	21.60	15.00	13.70	10.70
10127720-14XXXXLF	14	24.60	18.00	16.70	13.70
10127720-16XXXXLF	16	27.60	21.00	19.70	16.70
10127720-18XXXXLF	18	30.60	24.00	22.70	19.70
10127720-20XXXXLF	20	33.60	27.00	25.70	22.70
10127720-22XXXXLF	22	36.60	30.00	28.70	25.70
10127720-24XXXXLF	24	39.60	33.00	31.70	28.70

mat'l. code				surface ☒ ISO 1302 ☒ tolerance ☒ ISO 406 ☐ ISO 1101			projection		product family MINITEK PWR3.0									
ltr	ecn no	dr	date	tolerances unless otherwise specified					title									
J	ELX-N-30249	TONY	2018-05-23	angles	linear	.0±.30	mm		DUAL ROW, R/A DIP TYPE MINITEK 3.0 STANDARD HEADER									
K	ELX-I-43460	ASLAM	2022-01-21															
				0°±2°			scale		N.T.S									
				dr	KENNY TAI	2013-10-21			dwg no									
F	ELX-T-25278	TAI	2016-11-04	engr	AKHIL RAJAN	2022-01-21			sheet 1 of 2									
G	ELX-N-27442	TONY	2017-07-14	chr	MITHUN PAUL	2022-01-21			10127720									
H	ELX-N-29540	TONY	2018-03-14	appd	SPK	2022-01-21			A3									
sheet index		revision sheet		K	K													
				1	2													

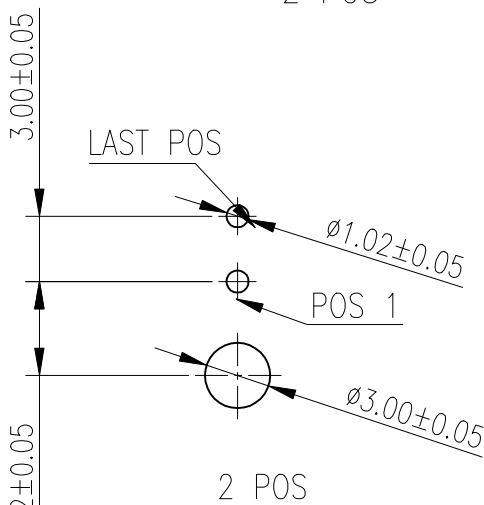
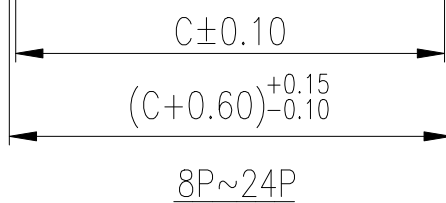
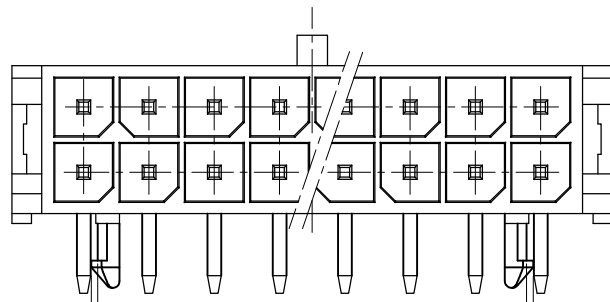
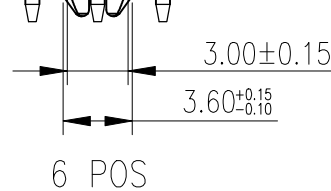
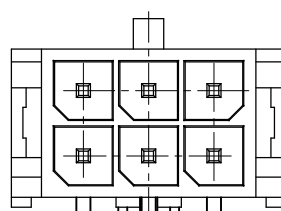
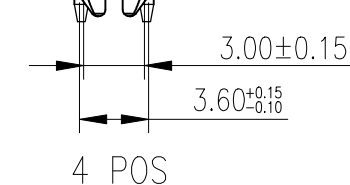
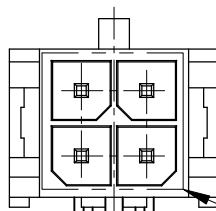
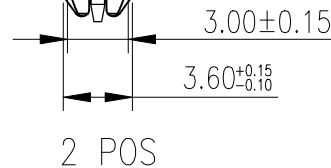
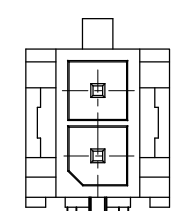


A

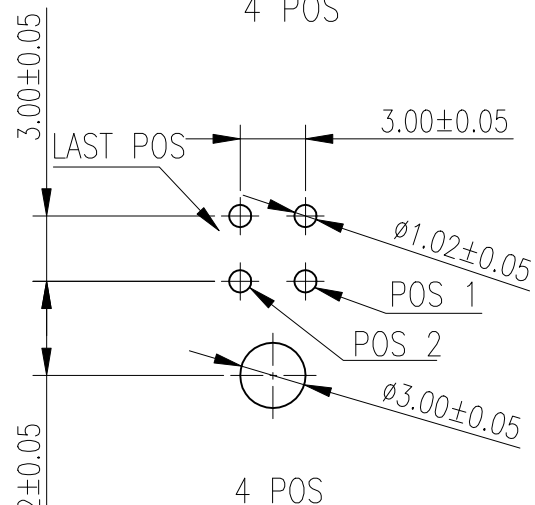
B

C

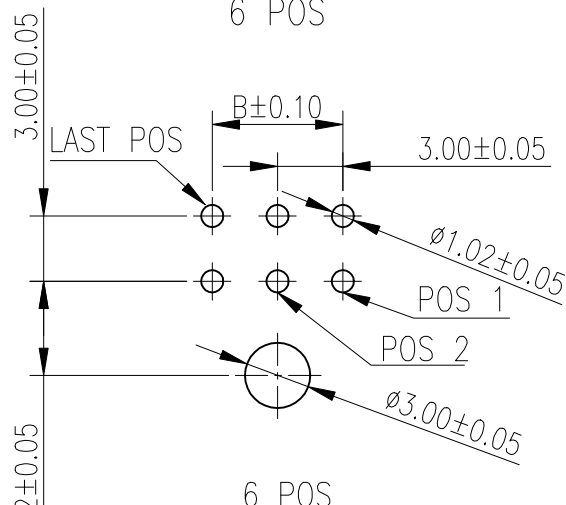
D



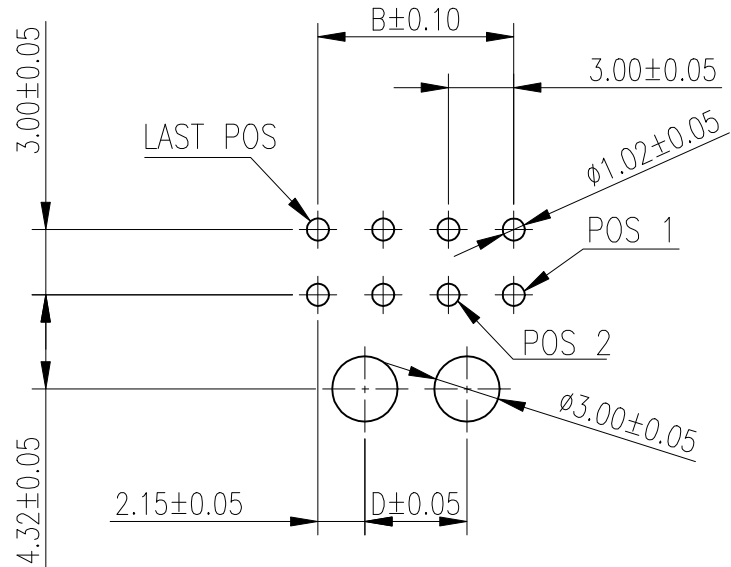
RECOMMENDED PCB LAYOUT
PCB THICKNESS=1.6mm.
General Tolerance±0.05



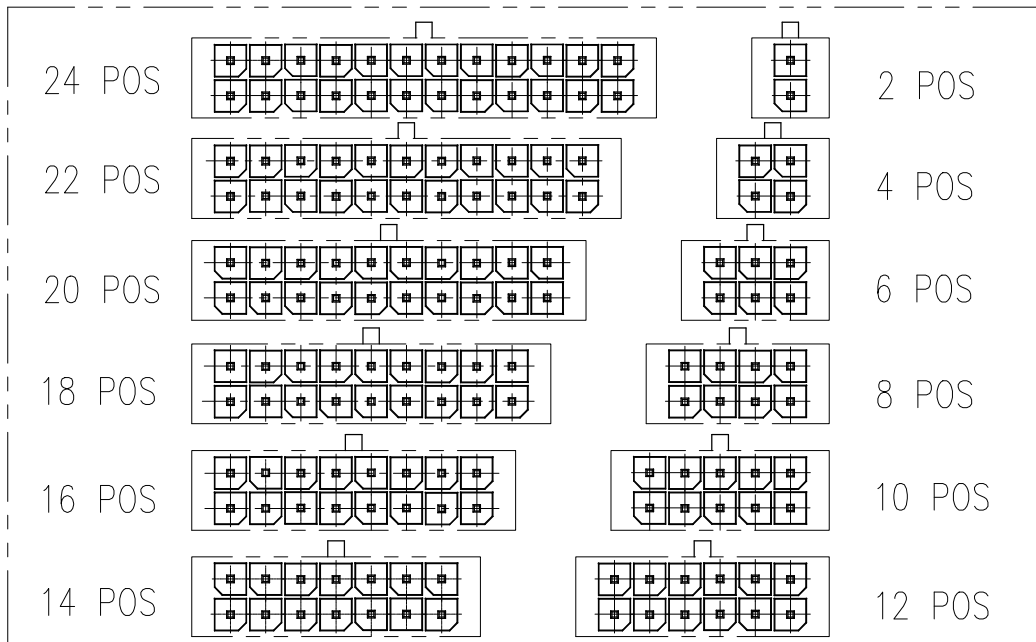
RECOMMENDED PCB LAYOUT
PCB THICKNESS=1.6mm.
General Tolerance±0.05



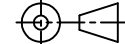
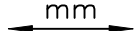
RECOMMENDED PCB LAYOUT
PCB THICKNESS=1.6mm.
General Tolerance±0.05



RECOMMENDED PCB LAYOUT
PCB THICKNESS=1.6mm.
General Tolerance±0.05



DETAIL D

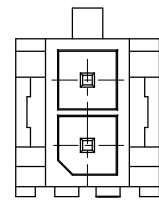
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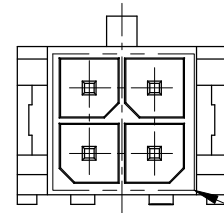
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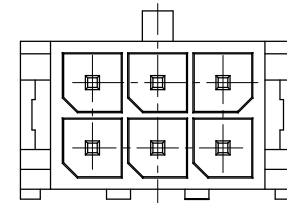


2 POSITIONS

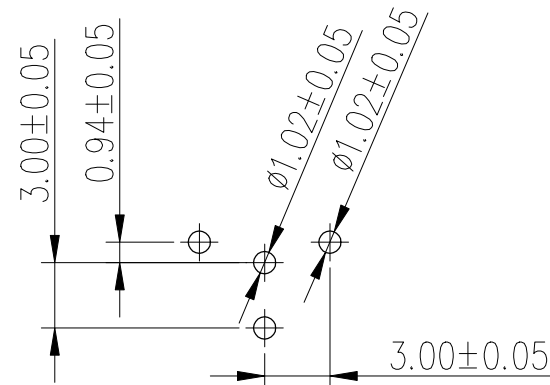


4 POSITIONS

DETAIL D

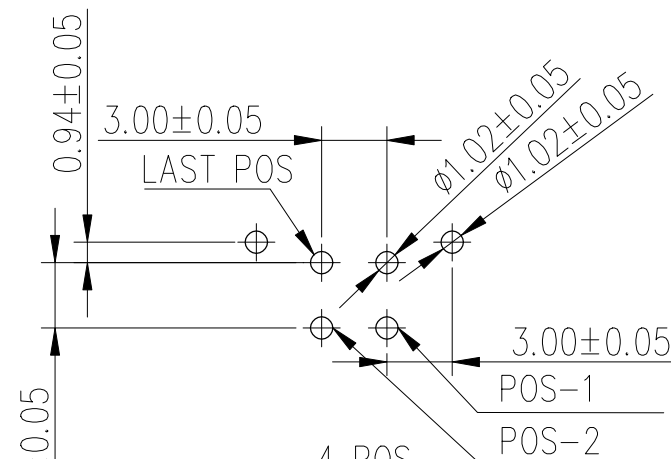


6 POSITIONS



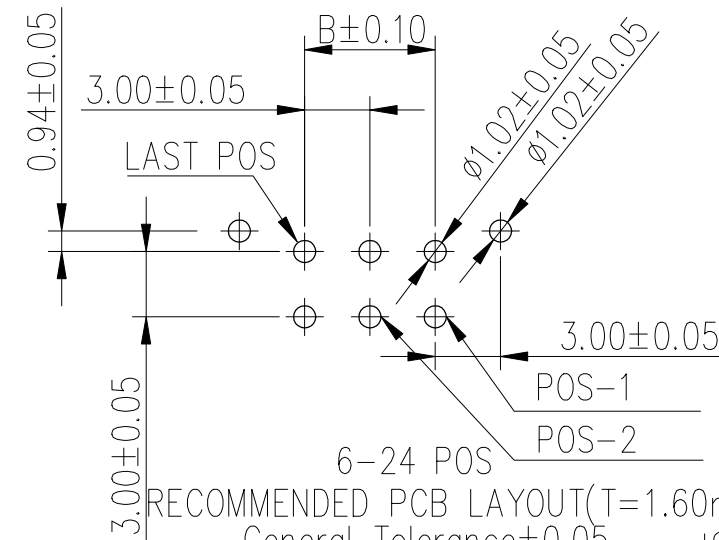
2 POS

RECOMMENDED PCB LAYOUT(T=1.60mm)
General Tolerance±0.05

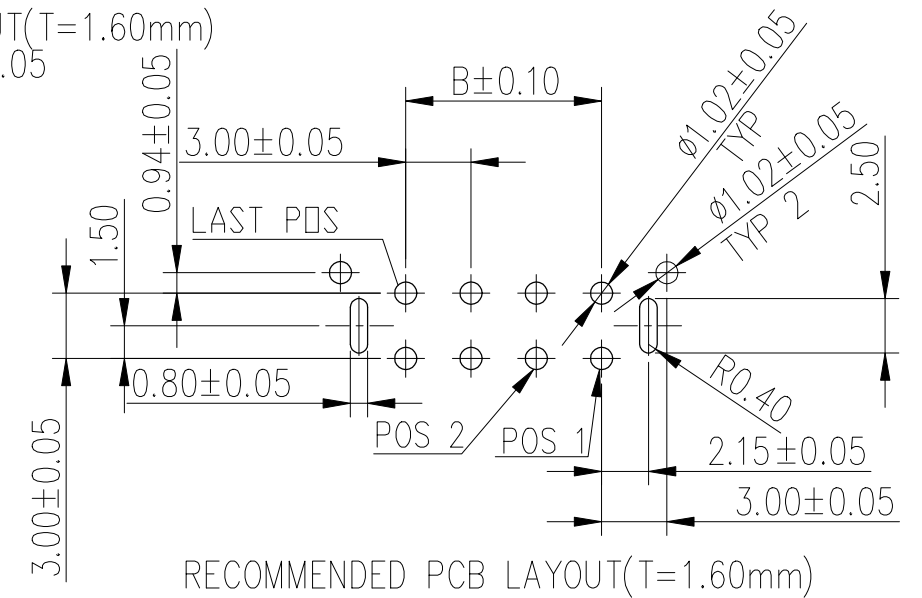


4 POS

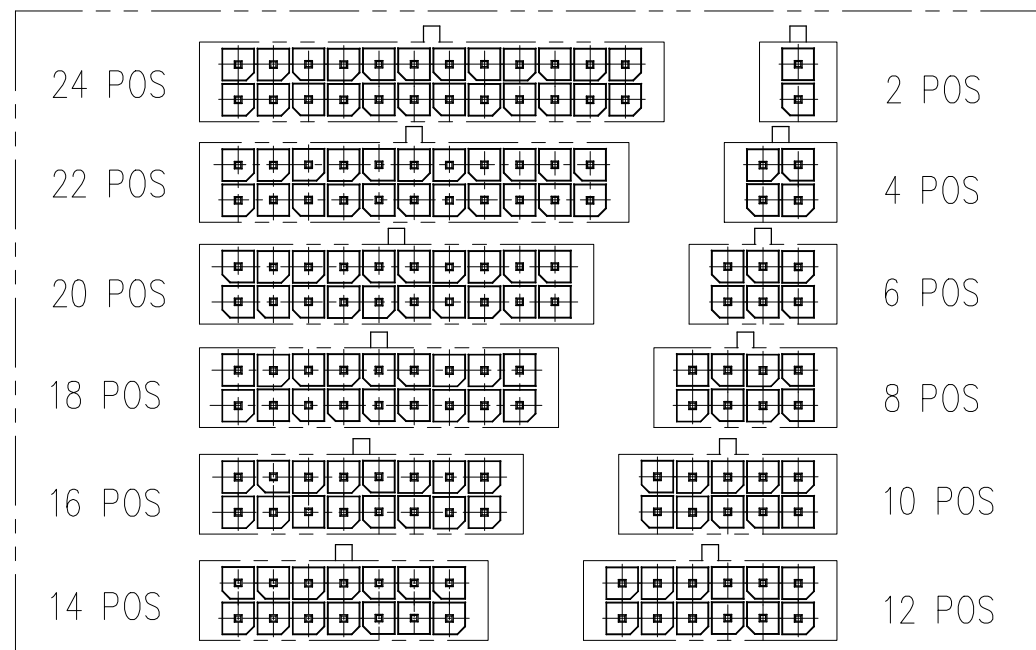
RECOMMENDED PCB LAYOUT(T=1.60mm)
General Tolerance±0.05



RECOMMENDED PCB LAYOUT(T=1.60mm)
General Tolerance±0.05



RECOMMENDED PCB LAYOUT(T=1.60mm)
02~24POS (W/HOLD DOWN)
General Tolerance±0.05



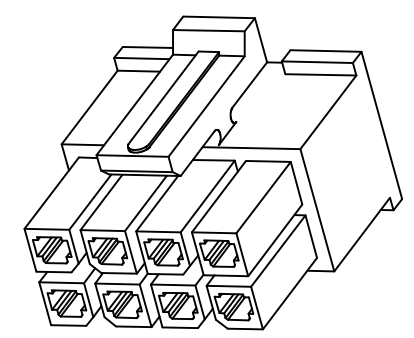
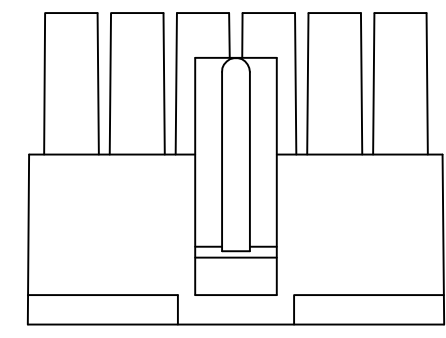
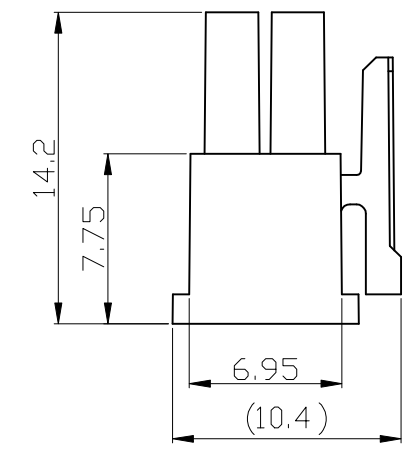
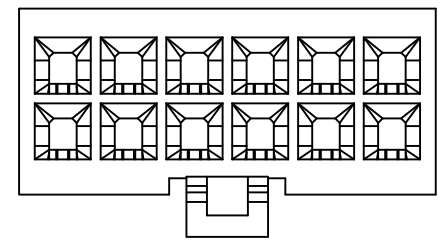
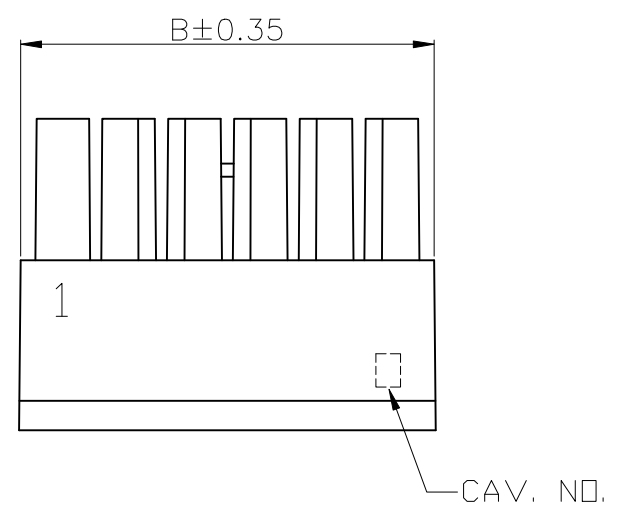
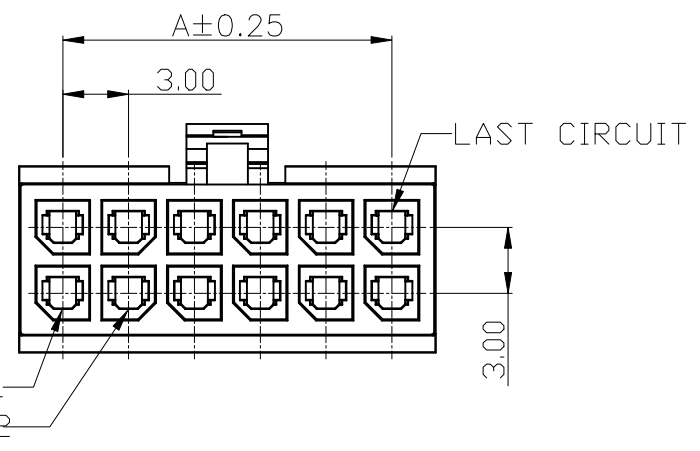
DETAIL D

mat'l. code				surface	tolerance		projection	product family			
				ISO 1302 ✓	ISO 406	ISO 1101		MINITEK PWR3.0			
ltr	ecn no	dr	date	tolerances unless otherwise specified				title			
				angles	linear	.0±.30 .00±.20		DUAL ROW, VERTICAL DIP TYPE MINITEK 3.0 STANDARD HEADER			
				0°±2°			mm				
				dr	KENNY TAI	2013-10-21	Amphenol FCI	dwg no		sheet2 of 2	size
				engr	AKHIL RAJAN	2022-01-21		10127721			A3
				chr	MITHUN PAUL	2022-01-21					
				appd	SPK	2022-01-21		type Product Customer Drawing			
sheet index	revision sheet	K 1	K 2								



Amphenol
FCi

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- NOTE:
- MATERIAL:
HOUSING: HIGH TEMP. NYLON, HALOGEN FREE
UL94V-0, COLOR: OPTIONS
 - REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
 - PRODUCT SPECIFICATION: GS-12-1291.
 - PACKAGE SPECIFICATION: GS-14-2419 (BULK PACKED)
 - APPLICATION SPECIFICATION: GS-20-0399.
 - LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
 - PART NUMBER SCHEME:
10132445- XX X LF
POS. CODE: ———— LEAD FREE
02: 2 POS. ———— COLOR,
04: 4 POS. ———— BLANK: BLACK
24: 24 POS.

DIMENSIONAL & PART NO. TABLE:

PART NO.	POS	A	B
10132445-02XLF	2	3.85	3.85
10132445-04XLF	4	3.0	6.85
10132445-06XLF	6	6.0	9.85
10132445-08XLF	8	9.0	12.85
10132445-10XLF	10	12.0	15.85
10132445-12XLF	12	15.0	18.85
10132445-14XLF	14	18.0	21.85
10132445-16XLF	16	21.0	24.85
10132445-18XLF	18	24.0	27.85
10132445-20XLF	20	27.0	30.85
10132445-22XLF	22	30.0	33.85
10132445-24XLF	24	33.0	36.85

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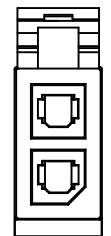
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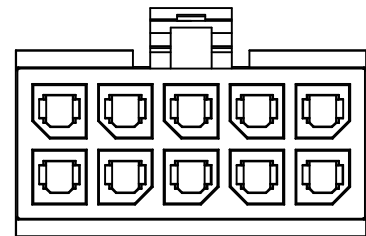
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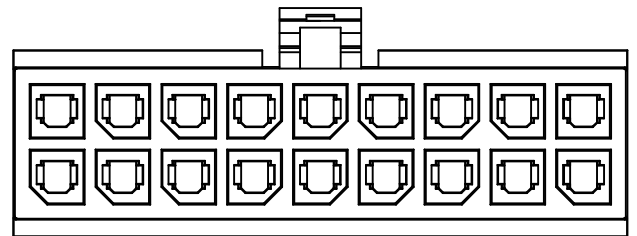
2 POS.



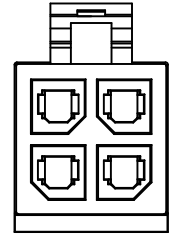
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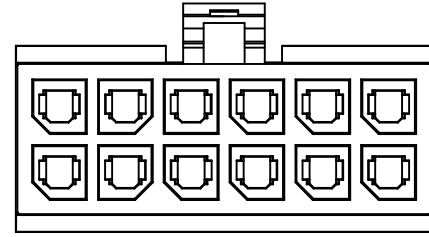
18 POS.



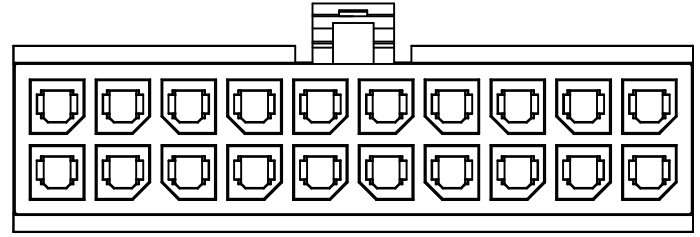
4 POS.



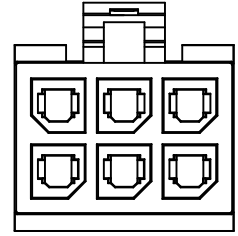
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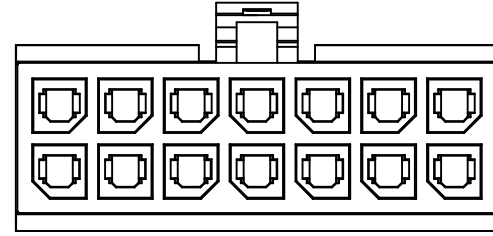
20 POS.



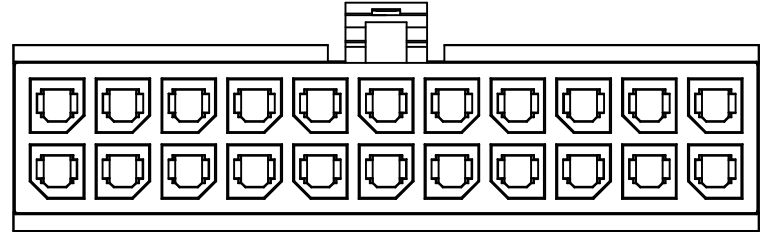
6 POS.



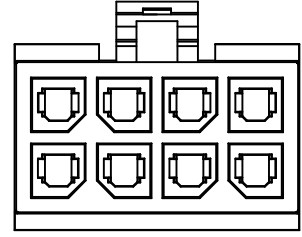
14 POS.



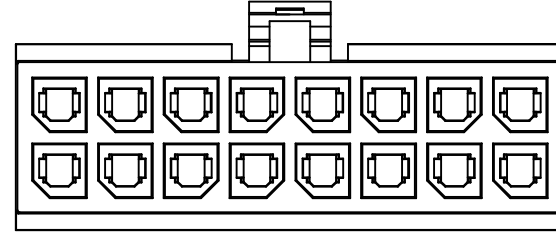
22 POS.



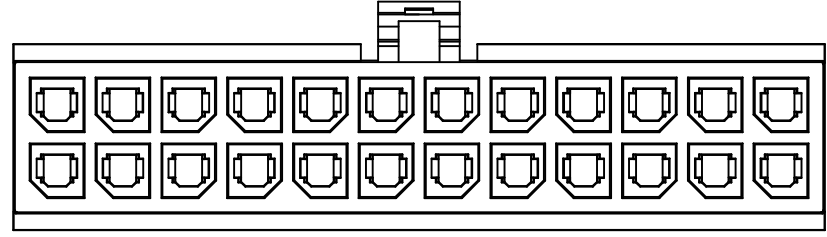
8 POS.



16 POS.



24 POS.



mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family MINITEK PWR3.0 HCC													
ltr	ecn no	dr	date	tolerances unless otherwise specified						 mm scale N.T.S		title MINITEK PWR3.0 REC. HSG D/R HIGH CURRENT											
				angles 0°±3°	linear	.0±.50																	
						.00±.30																	
						.000±.20																	
				dr	KENNY TAI		2015-02-03				dwg no				sheet 2 of 2				size				
				engr	AKHIL RAJAN		2022-01-21				10132445				A3								
				chr	MITHUN PAUL		2022-01-21																
				appd	SPK		2022-01-21																
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1		2		3		4		5		6																																																					
PRODUCT NUMBER																																																															
SEE PART NO. TABLE																																																															
NOTE: 1. MATERIAL: HOUSING: HIGH TEMP. NYLON,HALOGEN FREE UL94V-0, COLOR:BLACK 2. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR. 3. PRODUCT SPECIFICATION: GS-12-1291. 4. PACKAGE SPECIFICATION: GS-14-2419 (BULK PACKED) 5. APPLICATION SPECIFICATION: GS-20-0399. 6. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004 7. PART NUMBER SCHEME: 10132446- XX LF POS. CODE: LEAD FREE 02: 2 POS. 04: 4 POS. 24: 24 POS.																																																															
DIMENSIONAL & PART NO. TABLE: <table><thead><tr><th>PART NO.</th><th>POS</th><th>A</th><th>B</th></tr></thead><tbody><tr><td>10132446-02LF</td><td>2</td><td></td><td>3.85</td></tr><tr><td>10132446-04LF</td><td>4</td><td>3.0</td><td>6.85</td></tr><tr><td>10132446-06LF</td><td>6</td><td>6.0</td><td>9.85</td></tr><tr><td>10132446-08LF</td><td>8</td><td>9.0</td><td>12.85</td></tr><tr><td>10132446-10LF</td><td>10</td><td>12.0</td><td>15.85</td></tr><tr><td>10132446-12LF</td><td>12</td><td>15.0</td><td>18.85</td></tr><tr><td>10132446-14LF</td><td>14</td><td>18.0</td><td>21.85</td></tr><tr><td>10132446-16LF</td><td>16</td><td>21.0</td><td>24.85</td></tr><tr><td>10132446-18LF</td><td>18</td><td>24.0</td><td>27.85</td></tr><tr><td>10132446-20LF</td><td>20</td><td>27.0</td><td>30.85</td></tr><tr><td>10132446-22LF</td><td>22</td><td>30.0</td><td>33.85</td></tr><tr><td>10132446-24LF</td><td>24</td><td>33.0</td><td>36.85</td></tr></tbody></table>												PART NO.	POS	A	B	10132446-02LF	2		3.85	10132446-04LF	4	3.0	6.85	10132446-06LF	6	6.0	9.85	10132446-08LF	8	9.0	12.85	10132446-10LF	10	12.0	15.85	10132446-12LF	12	15.0	18.85	10132446-14LF	14	18.0	21.85	10132446-16LF	16	21.0	24.85	10132446-18LF	18	24.0	27.85	10132446-20LF	20	27.0	30.85	10132446-22LF	22	30.0	33.85	10132446-24LF	24	33.0	36.85
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10132446-24LF	24	33.0	36.85																																																												

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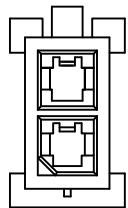
B

C

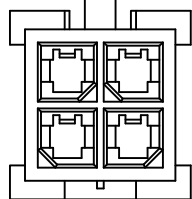
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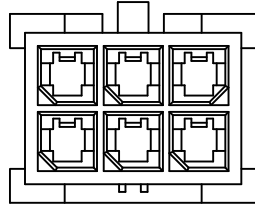
2 POS.



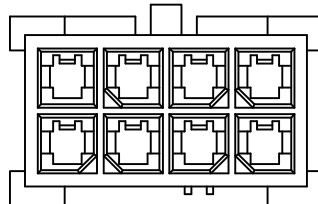
4 POS.



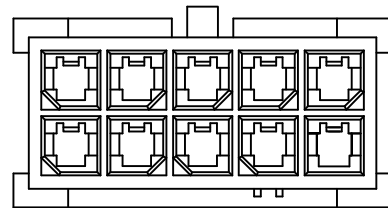
6 POS.



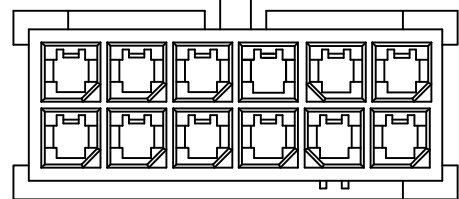
8 POS.



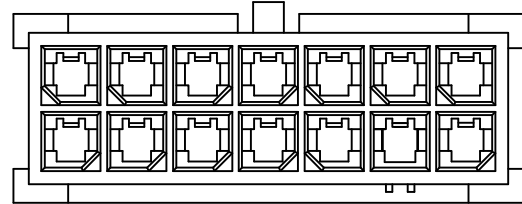
10 POS.



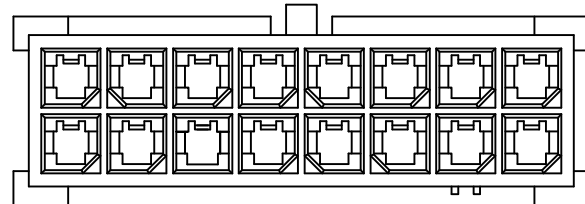
12 POS.



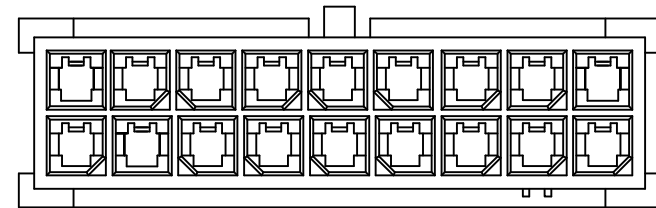
14 POS.



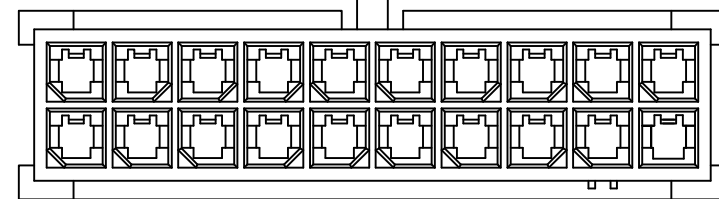
16 POS.



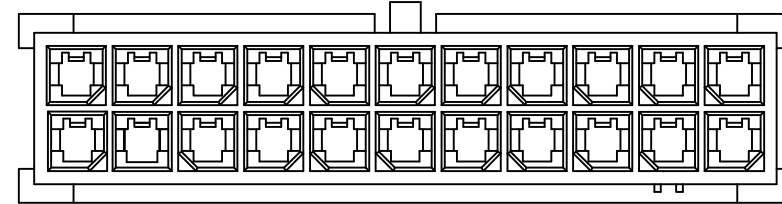
18 POS.



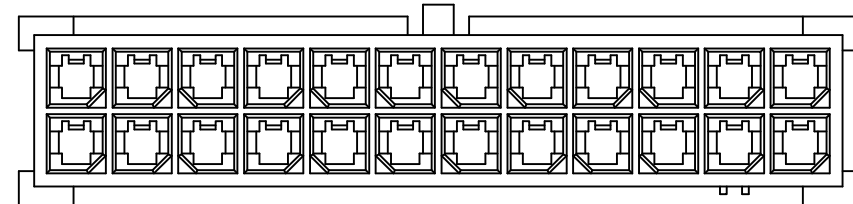
20 POS.



22 POS.



24 POS.



mat'l. code				surface		tolerance		projection		product family											
				ISO 1302		ISO 406 ISO 1101				MINITEK PWR3.0 HCC											
ltr	ecn no	dr	date	tolerances unless otherwise specified								MINITEK PWR3.0 PLUG. HSG D/R HIGH CURRENT									
				angles		linear		.0±.25		mm											
								.00±.15													
				0°±3'						scale		N.T.S									
				dr	KENNY TAI		2015-02-03				dwg no				sheet 2 of 2				size		
				engr	AKHIL RAJAN		2022-01-21				10132446				A3						
				chr	MITHUN PAUL		2022-01-21														
				appd	SPK		2022-01-21														
sheet index		revision sheet		B	B																
				1	2																

1

2 3

4

5

6

A

B

C

D

A

B

C

D

1

2

3

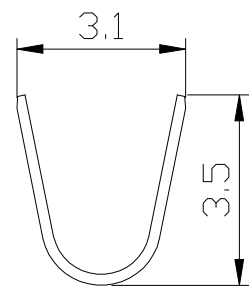
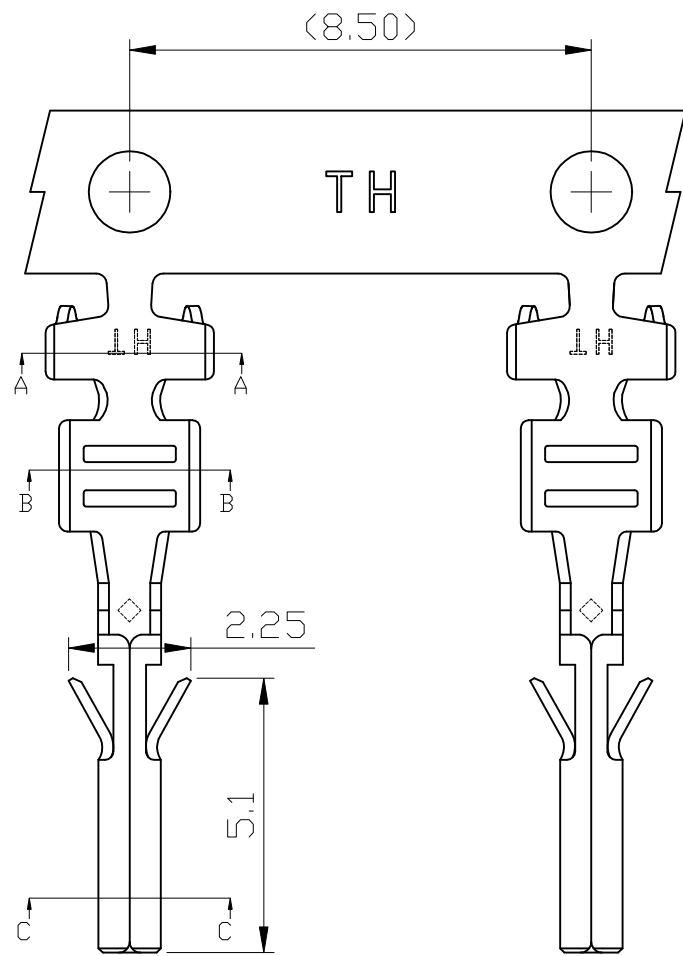
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5

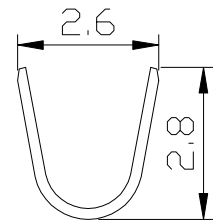
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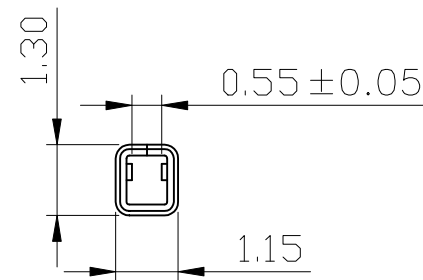
PRODUCT NUMBER
10132447-1X1XLF



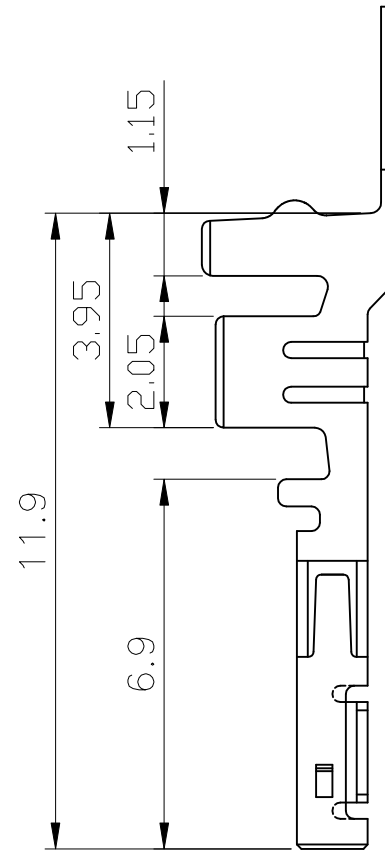
Section A-A



Section B-B



Section C-C



NOTES:

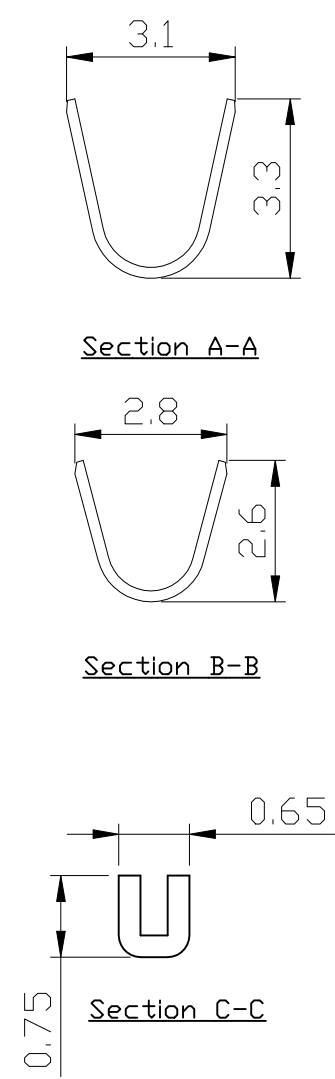
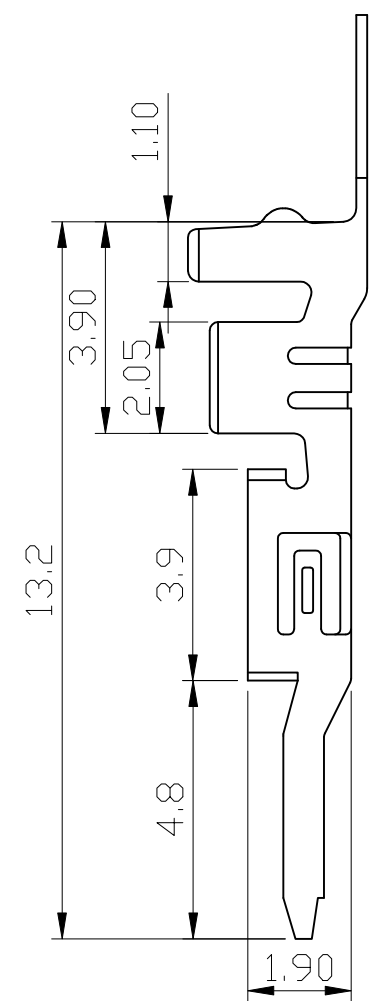
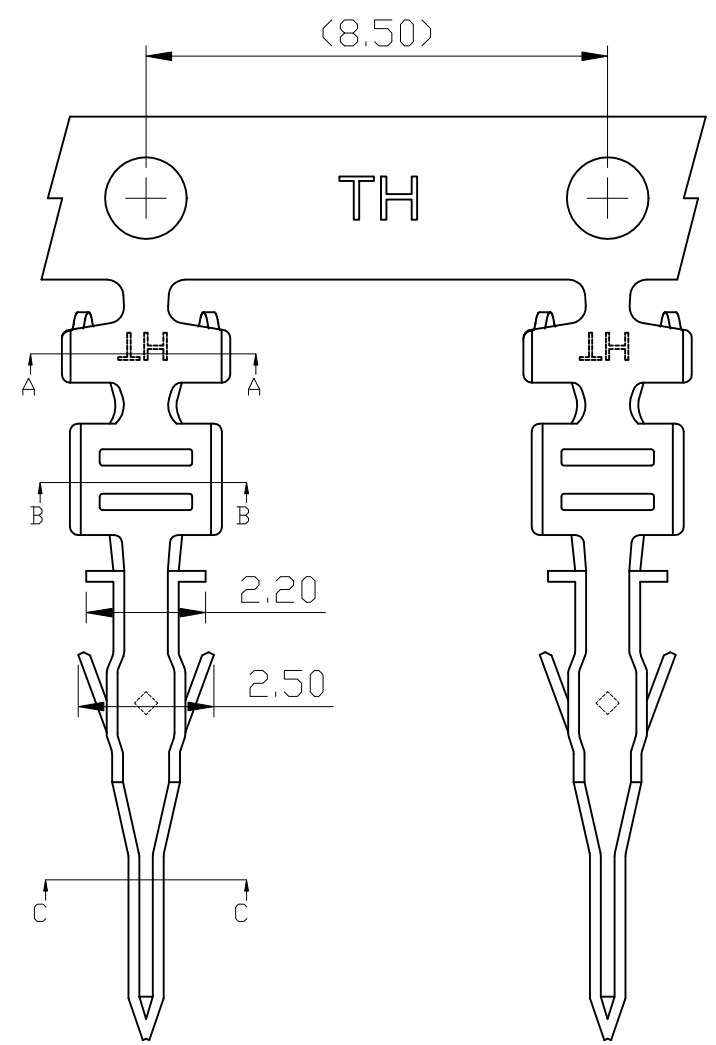
- MATERIAL:
TERMINAL: HIGH CONDUCTIVITY COPPER ALLOY.
- PLATING:
CONTACT AREA : OPTIONAL
CRIMP AREA : OPTIONAL
UNDER PLATING : MIN. 15u" NICKEL OVERALL
- APPLICABLE WIRES: AWG#16~#20, INSULATOR O.D:
2.2mm MAX.
- REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR
- PRODUCT SPECIFICATION: GS-12-1291.
- REEL PACKING AS PER GS-14-2419.
- APPLICATION SPECIFICATION : GS-20-0399
- THIS LF PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND
OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.
- PRODUCT NUMBER SCHEME:
10132447-1 X 1 X LF
LEAD FREE
PLATING TYPE:
P: PRE-PLATED
PLATING CODE:
1: GOLD FLASH OVERALL
2: 60u" MIN MATTE TIN
3: 15u" GOLD PLATING ON CONTACT AREA,
60u" MIN MATTE TIN CRIMP AREA
4: 30u" GOLD PLATING ON CONTACT AREA,
60u" MIN MATTE TIN CRIMP AREA

mat'l. code				surface		tolerance		projection		product family											
				ISO 1302 ✓		ISO 406 ISO 1101				MINITEK PWR 3.0 HCC											
ltr	ecn no	dr	date	tolerances unless otherwise specified								title RECEPTACLE CRIMP TERMINAL HIGH CURRENT WIRE CONNECTOR									
A		TAI	2015-02-25	angles	linear	.0±0.30		scale N.T.S													
B	ELX-T-22964	TAI	2016-01-06			.00±0.20															
C	ELX-T-26528	TONY	2017-03-31			0°±5°															
D	ELX-N-30328	TONY	2018-05-30	dr	KENNY TAI		2015-02-16				dwg no				sheet 1 of 1				size		
E	ELX-I-43460	AKHIL	2022-01-21	engr	AKHIL RAJAN		2022-01-21				10132447				A3						
				chr	MITHUN PAUL		2022-01-21														
				appd	SPK		2022-01-21														
sheet index		revision sheet		E																	
				1																	

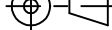
© 2016 AFCl



PRODUCT NUMBER
10132448-1X1XLF



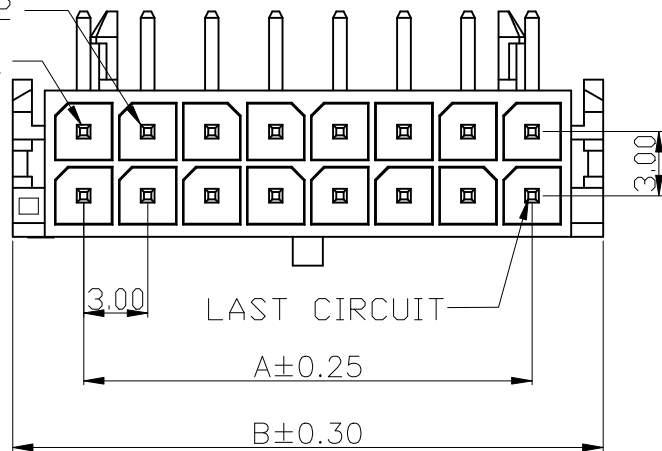
- NOTES:
1. MATERIAL:
TERMINAL: HIGH CONDUCTIVITY COPPER ALLOY.
 2. PLATING:
CONTACT AREA : OPTIONAL
CRIMP AREA : OPTIONAL
UNDER PLATING : MIN. 15u" NICKEL OVERALL
 3. APPLICABLE WIRES: AWG#16~#20, INSULATOR O.D:
2.2mm MAX.
 4. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR
 5. PRODUCT SPECIFICATION: GS-12-1291.
 6. REEL PACKING AS PER GS-14-2419.
 7. APPLICATION SPECIFICATION : GS-20-0399
 8. THIS LF PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.
 9. PRODUCT NUMBER SCHEME:
10132448-1 X 1 X LF
LEAD FREE
PLATING TYPE:
BLANK: POST-PLATED
PLATING CODE:
1: GOLD FLASH OVERALL
2: 60u" MIN MATTE TIN OVERALL

mat'l. code				surface ISO 1302 ✓				tolerance ISO 406 ISO 1101				projection 				product family MINITEK PWR 3.0 HCC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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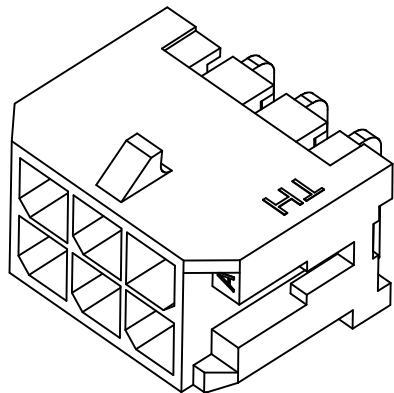
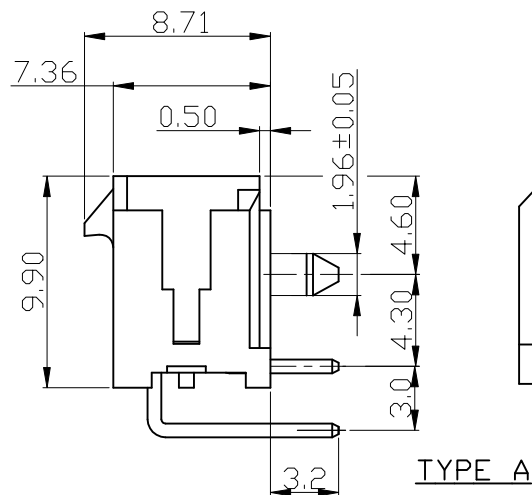
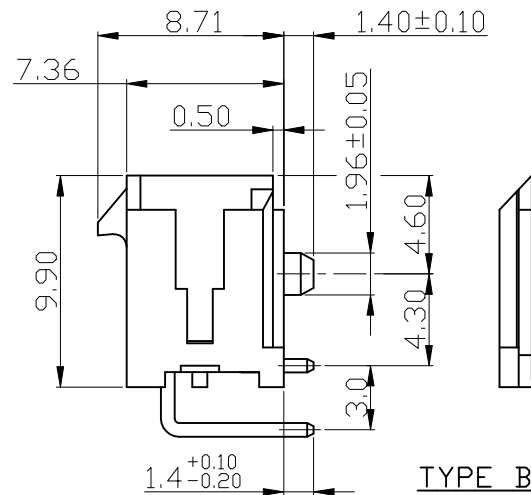
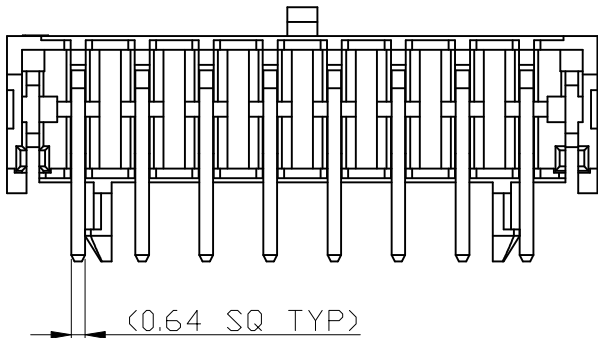
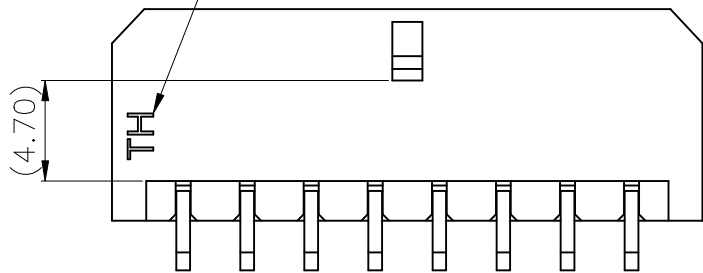
PRODUCT NUMBER

SEE PART NO. TABLE

CIRCUIT 2
CIRCUIT 1



HIGH CURRENT
MARK



NOTE:

1. MATERIAL:
HOUSING: HIGH TEMP NYLON, UL94V-0, HALOGEN FREE, COLOR: OPTIONAL
CONTACT: HIGH CONDUCTIVITY COPPER ALLOY.
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, 100u" MATTE TIN ON SOLDER TAIL.
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
4. PRODUCT SPECIFICATION: GS-12-1291.
5. PACKAGE SPECIFICATION: GS-14-2419.
6. APPLICATION SPECIFICATION: GS-20-0399
7. TAPE AND REEL PACKING: TYPE A—ONLY FOR 02 AND 06 POS.
TYPE B—FOR ALL POSITIONS
8. THE HOUSING WILL WITHSTAND EXPOSURE TO
260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
9. THE HOUSING WILL WITHSTAND EXPOSURE TO
235°C PEAK TEMPERATURE FOR 5 SECONDS IN A WAVE SOLDER
10. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES
AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
11. PART NUMBER SCHEME:

AU10132449- XX X X X X X LF

POS. CODE:
02: 2 POS
04: 4 POS
24: 24 POS

PLATING CODE:
1: GOLD FLASH OVERALL
2: 100u" Min. MATTE TIN OVERALL
4: 30u" Min GOLD ON CONTACT AREA,
100u" Min MATTE TIN ON TAIL

LEAD FREE
PACKAGING
BLANK: TRAY
T: TAPE & REEL (SEE NOTE 7)

TAIL LENGTH
BLANK: TYPE A
B: TYPE B

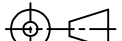
HSG MATERIAL:
G: HIGH TEMP NYLON (GLOW WIRE
COMPATIBLE)

HSG COLOR:
1: BLACK

12. 'AU' PREFIX AND '-' IN THE PART NUMBER LOGIC ARE OPTIONAL.
FOR ANY CLARIFICATION PLEASE CONTACT AFCI ENGINEERING

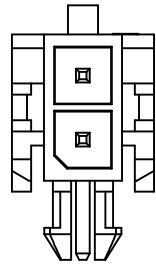
P/N & DIMENSION TABLE:

PART NO.	POS	A	B
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10132449-06XXXXXLF	6	6.00	12.65
10132449-08XXXXXLF	8	9.00	15.65
10132449-10XXXXXLF	10	12.00	18.65
10132449-12XXXXXLF	12	15.00	21.65
10132449-14XXXXXLF	14	18.00	24.65
10132449-16XXXXXLF	16	21.00	27.65
10132449-18XXXXXLF	18	24.00	30.65
10132449-20XXXXXLF	20	27.00	33.65
10132449-22XXXXXLF	22	30.00	36.65
10132449-24XXXXXLF	24	33.00	39.65

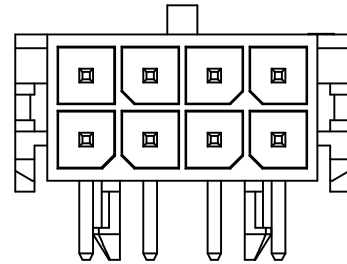
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TYPE-A OUTLINE OF DIFFERENT PIN COUNTS

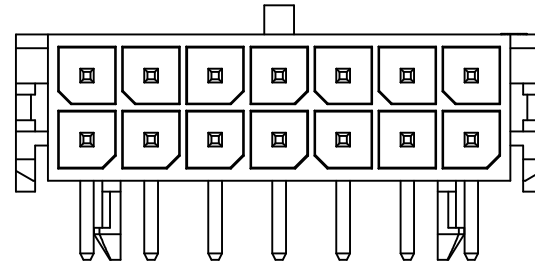
2 POS.



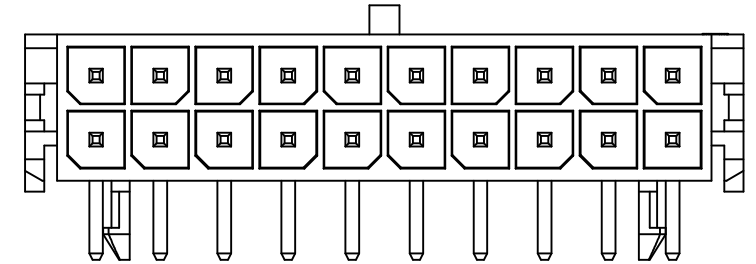
8 POS.



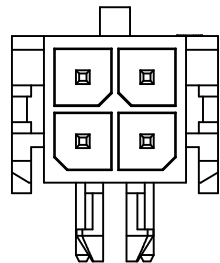
14 POS.



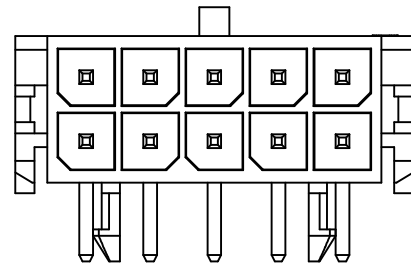
20 POS.



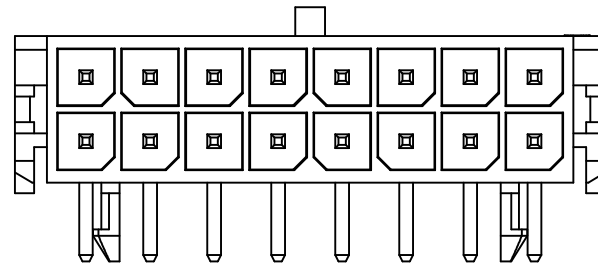
4 POS.



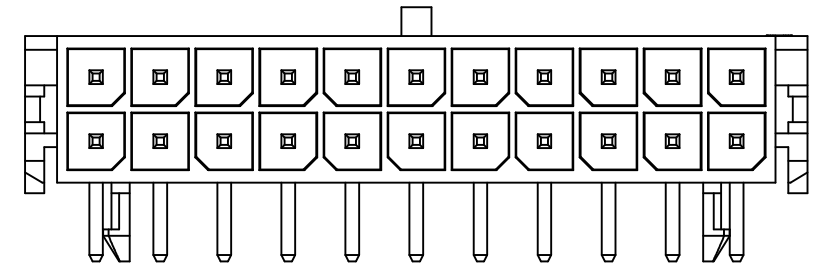
10 POS.



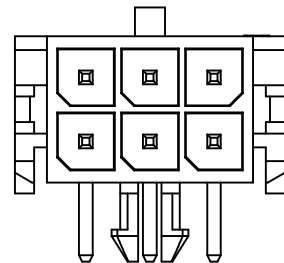
16 POS.



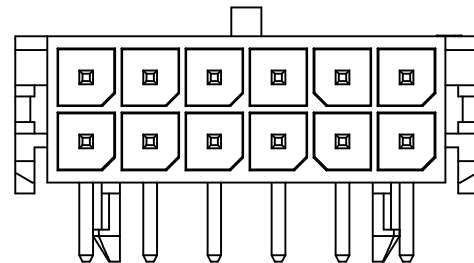
22 POS.



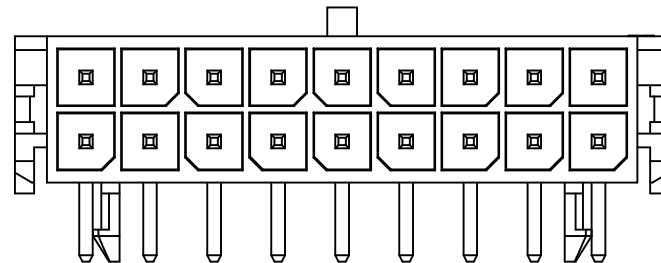
6 POS.



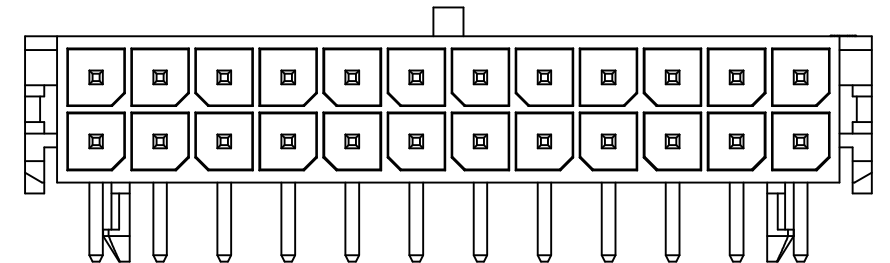
12 POS.



18 POS.

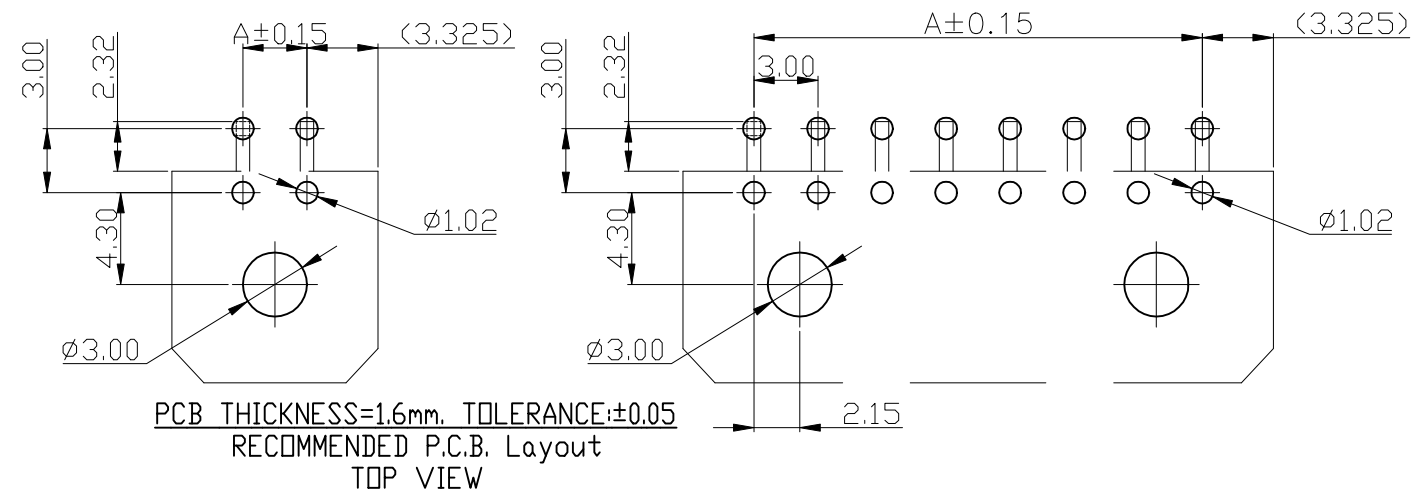


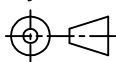
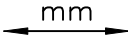
24 POS.



2~6 POS.

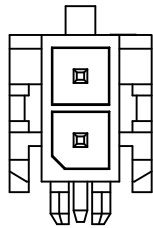
8~24 POS.



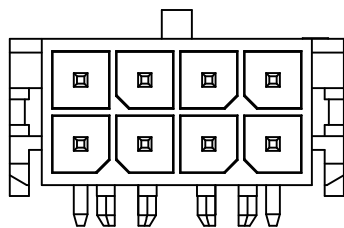
mat'l. code					surface ISO 1302 ✓			tolerance ISO 406 ISO 1101					product family MINITEK PWR3.0 HCC															
ltr		ecn no		dr	date		tolerances unless otherwise specified						title MINITEK PWR3.0 R/A DR HEADER HIGH CURRENT															
							angles		linear			.0±35		scaleN.T.S.														
							0°±x°			.00±.25																		
							dr	KENNY TAI		2015-02-03			dwg no					sheet 2 of 3					size					
							engr	AKHIL RAJAN		2022-01-21			10132449										A3					
							chr	MITHUN PAUL		2022-01-21																		
							appd	SPK		2022-01-21																		
sheet index		revision		D	D	D																						
		sheet		1	2	3																						

TYPE-B OUTLINE OF DIFFERENT PIN COUNTS

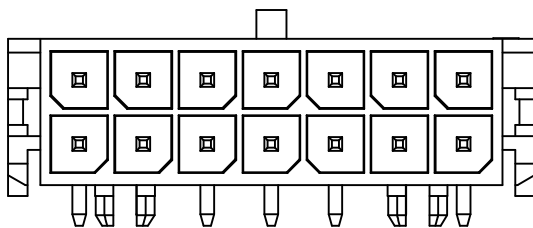
2 POS.



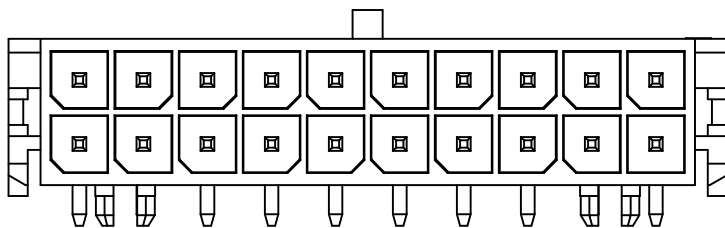
8 POS.



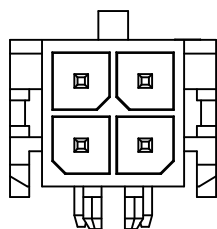
14 POS.



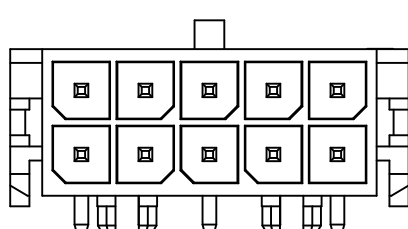
20 POS.



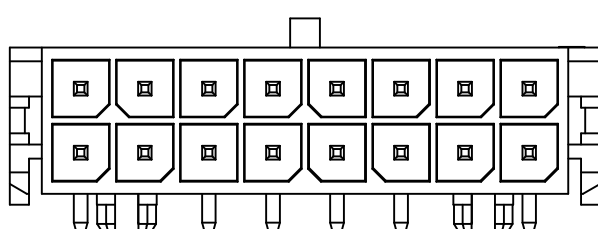
4 POS.



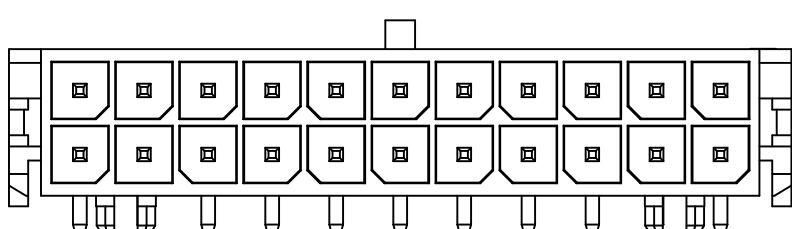
10 POS.



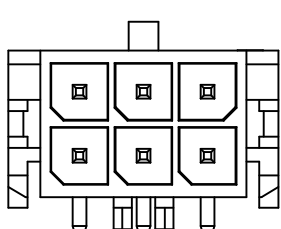
16 POS.



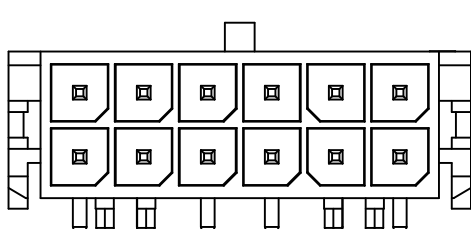
22 POS.



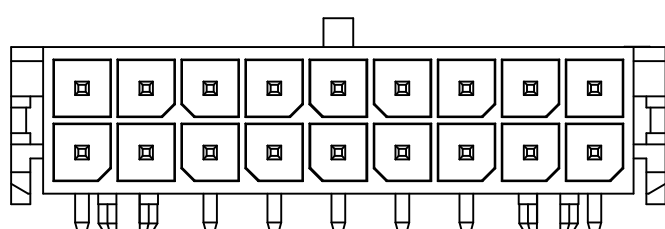
6 POS.



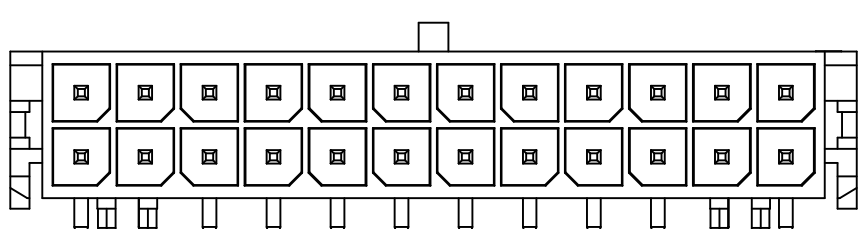
12 POS.



18 POS.

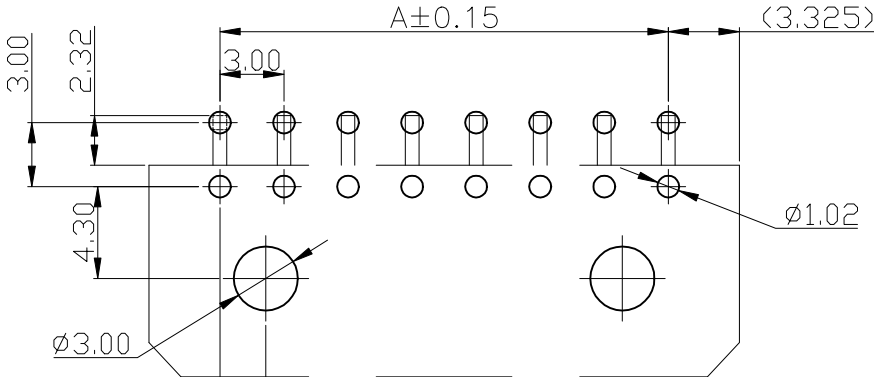
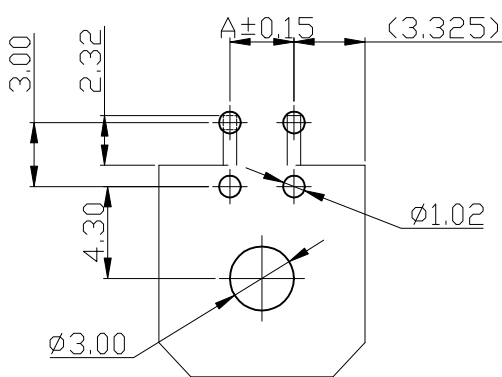


24 POS.



2~6 POS.

8~24 POS.



PCB THICKNESS=1.5mm. TOLERANCE:±0.05
RECOMMENDED P.C.B. Layout
TOP VIEW

mat'l. code					surface ISO 1302 ☒				tolerance ISO 406 ISO 1101				projection 				product family MINITEK PWR3.0 HCC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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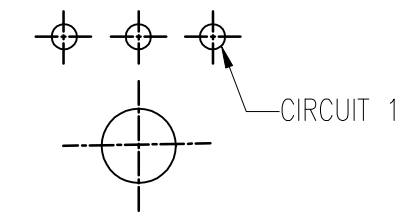
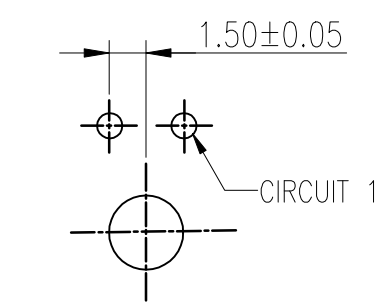
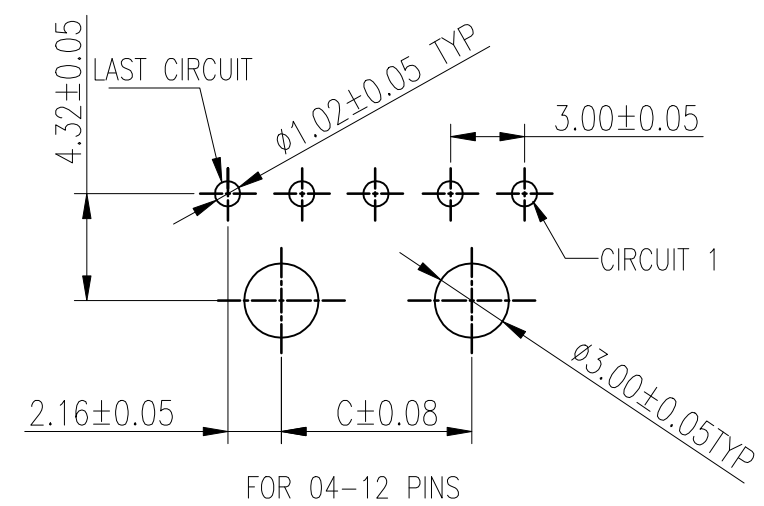
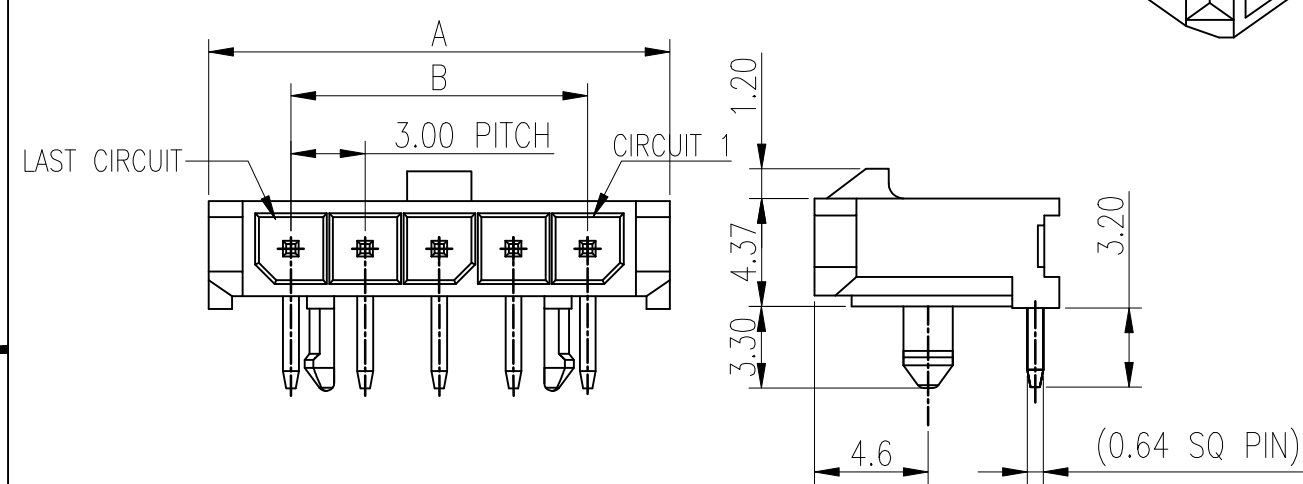
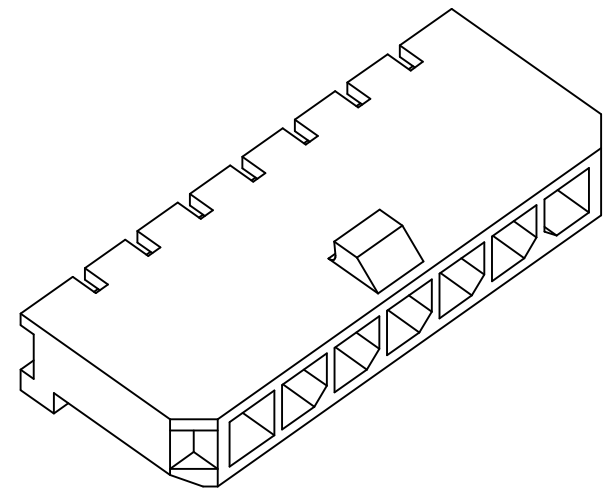
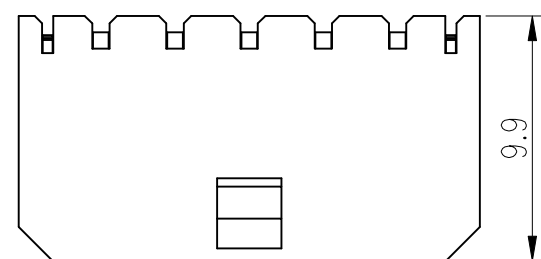
Amphenol
FCI

© 2016 AFCl

D

PRODUCT NUMBER

SEE P/N SCHEME



RECOMMENDED PCB LAYOUT
PCB THICKNESS=1.6mm.
General Tolerance±0.05

NOTE:

1. MATERIAL:
HOUSING: LCP, UL94V-0, HALOGEN FREE, COLOR: BLACK
CONTACT: COPPER ALLOY.
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA,TIN ON SOLDER TAIL.
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
4. PRODUCT SPECIFICATION: GS-12-1177.
5. PACKAGE SPECIFICATION: GS-14-2359.
6. APPLICATION SPECIFICATION: GS-20-0399
7. THE HOUSING WILL WITHSTAND EXPOSURE TO
260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
8. THE HOUSING WILL WITHSTAND EXPOSURE TO
235°C PEAK TEMPERATURE FOR 5 SECONDS IN A WAVE SOLDER
9. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES
AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
10. PART NUMBER SCHEME:
10136654- XX X X X LF

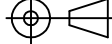
POS. CODE: ————
02: 2 POS
03: 4 POS
12: 12 POS
S1: SEE SHEET-2
S2: SEE SHEET-2

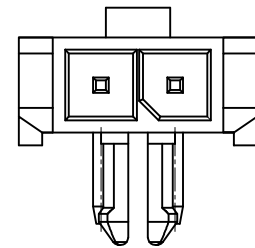
LEAD FREE
OPTIONAL PACKAEGS:
BLANK: TRAY
R: TAPE AND REEL

GLOW WIRE COMPATIBLE:
1: COMPATIBLE
2: NON-COMPATIBLE

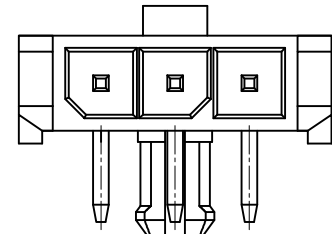
PLATING CODE: ————
1: 100u" Min. MATTE TIN OVERALL
2: GOLD FLASH OVERALL
3: 15u"Min Au ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL
4: 30u" Au ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL

PART NO.	POS.	A	B	C
10136654-02XXXLF	02	9.65	3.0	
10136654-03XXXLF	03	12.65	6.0	
10136654-04XXXLF	04	15.65	9.0	4.70
10136654-05XXXLF	05	18.65	12.0	7.70
10136654-06XXXLF	06	21.65	15.0	10.70
10136654-07XXXLF	07	24.65	18.0	13.70
10136654-08XXXLF	08	27.65	21.0	16.70
10136654-09XXXLF	09	30.65	24.0	19.70
10136654-10XXXLF	10	33.65	27.0	22.70
10136654-11XXXLF	11	36.65	30.0	25.70
10136654-12XXXLF	12	39.65	33.0	28.70

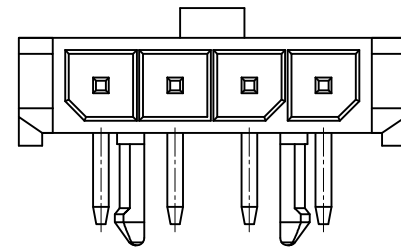
mat'l. code				surface ISO 1302 ✓			tolerance ISO 406 ISO 1101			projection 			product family MINITEK PWR3.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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D	ELX-N-26823	TONY	2017-04-27	dr	KENNY TAI			2015-08-21						dwg no										sheet 1 of 2			size																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
E	ELX-N-27171	TONY	2017-06-07	enr	AKHIL RAJAN			2022-01-21						10136654										A3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
F	ELX-N-27388	TONY	2017-07-05	chr	MITHUN PAUL			2022-01-21																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
G	ELX-N-29703	TONY	2018-03-29	app	SPK			2022-01-21																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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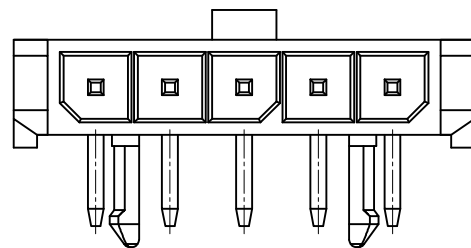
2 POS



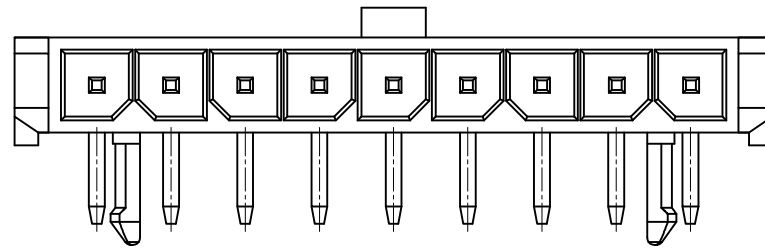
3 POS



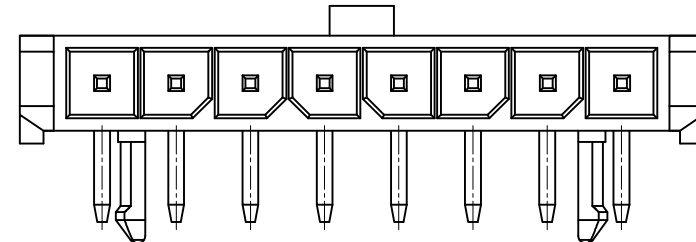
4 POS



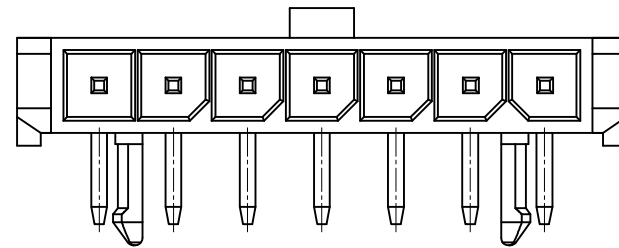
5 POS



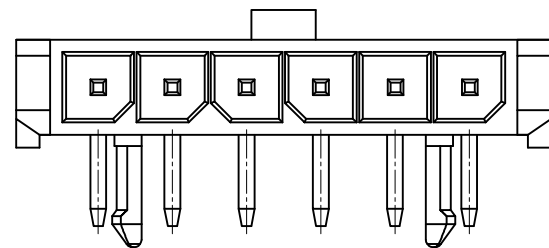
9 POS



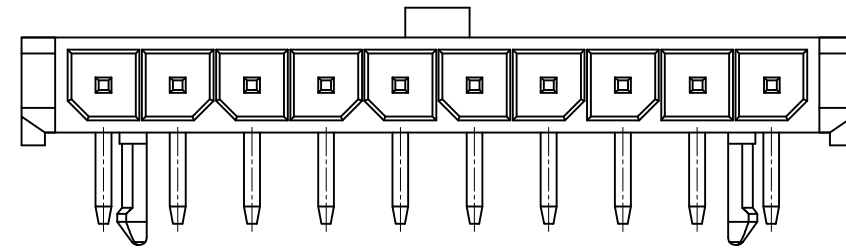
8 POS



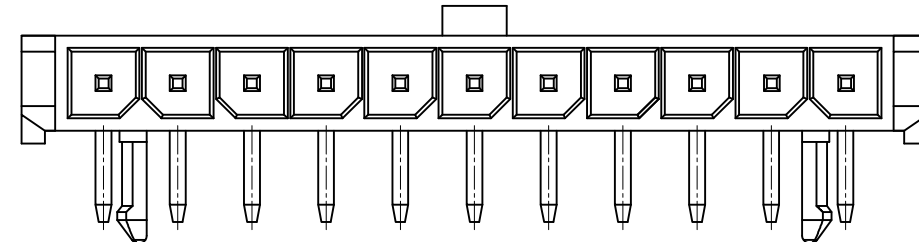
7 POS



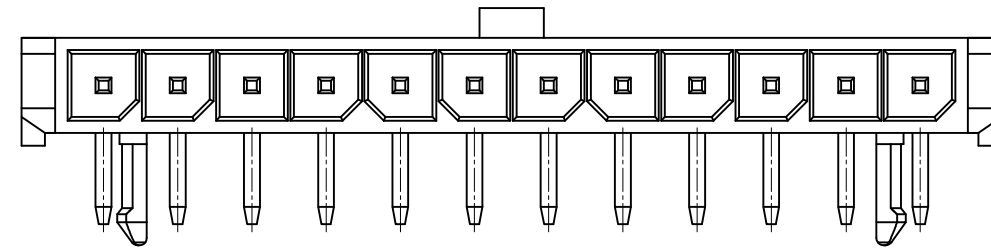
6 POS



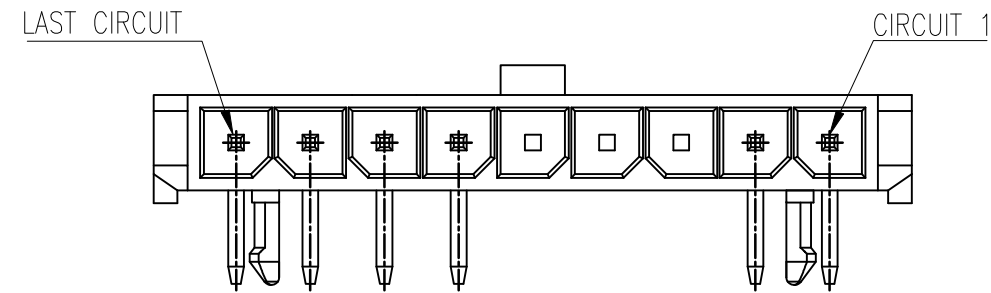
10 POS



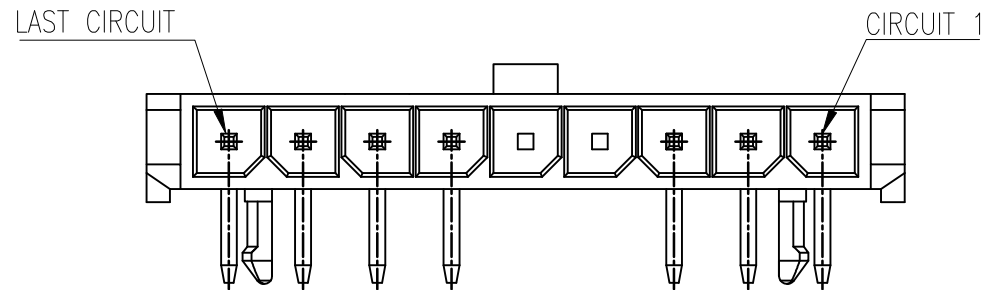
11 POS



12 POS



"S1": 9 POS., SELECTIVE LOADING
(CIRCUIT 3,4 & 5 REMOVED)



"S2": 9 POS., SELECTIVE LOADING
(CIRCUIT 4 & 5 REMOVED)

mat'l. code				surface ISO 1302 ✓			tolerance ISO 406 ISO 1101			projection mm			product family MINITEK PWR3.0											
ltr	ecn no	dr	date	tolerances unless otherwise specified				angles linear			scaleN.T.S			title SINGLE ROW R/A HEADER MINITEK 3.0 STANDARD										
								.0±.30																
								.00±.20																
				dr	KENNY TAI		2015-08-21							dwg no sheet 2 of 2 size										
				engr	AKHIL RAJAN		2022-01-21							10136654 A3										
				chr	MITHUN PAUL		2022-01-21																	
				appd	SPK		2022-01-21							type Product Customer Drawing										
sheet index	revision sheet	H 1	H 2																					

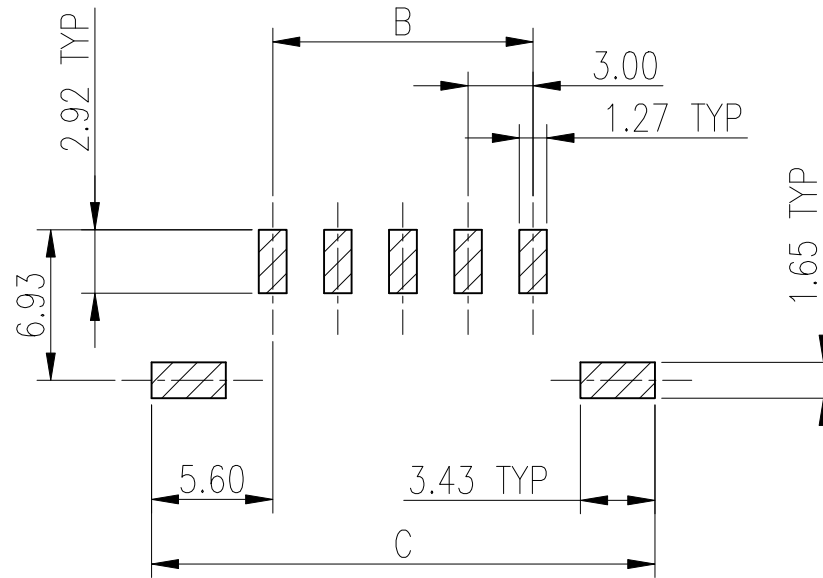
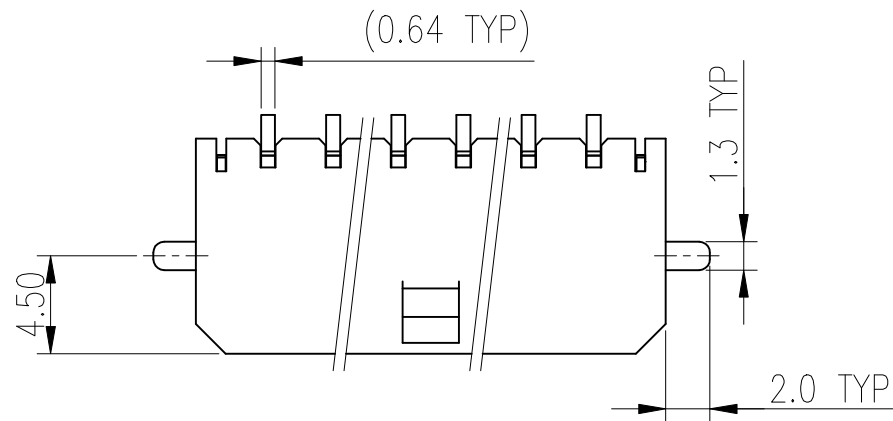


A

B

C

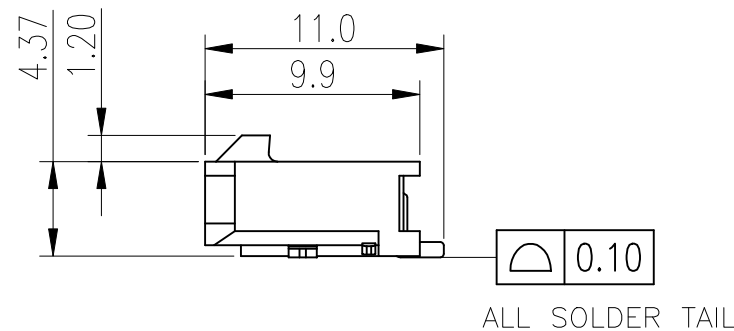
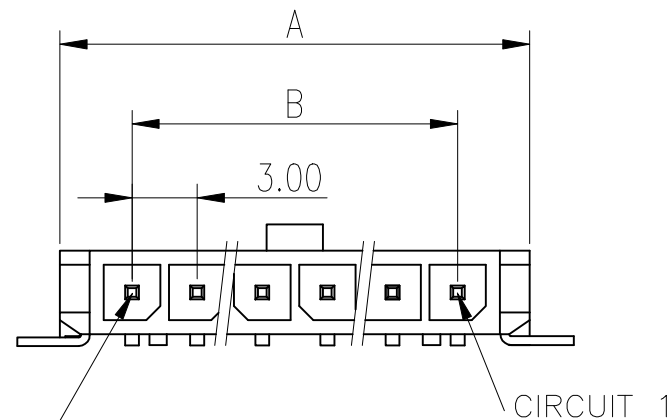
D



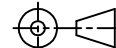
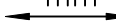
RECOMMENDED P.C.B LAYOUT
(GENERAL TOLERANCE: ± 0.05)

- NOTE:
- MATERIAL:
HOUSING: LCP, UL94V-0, HALOGEN FREE, COLOR: BLACK
CONTACT: COPPER ALLOY.
METAL HOLD DOWN: COPPER ALLOY
 - CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, 100u" MIN MATTE TIN ON SOLDER TAIL.
METAL HOLD DOWN FINISH: 100u" MIN MATTE TIN OVER 50u" Min. NICKEL
 - REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
 - PRODUCT SPECIFICATION: GS-12-1177.
 - TAPE & REEL PACKAGE SPECIFICATION: GS-14-2359.
 - APPLICATION SPECIFICATION: GS-20-0399
 - THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
 - LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
 - PART NUMBER SCHEME:
10136655- XX X X LF
POS. CODE: X X LF
02: 2 POS LEAD FREE
03: 4 POS GLOW WIRE COMPATIBLE:
 1: COMPATIBLE
 2: NON-COMPATIBLE
PLATING CODE:
1: 100u" Min. MATTE TIN OVERALL
2: GOLD FLASH ON CONTACT AREA,
 100u"Min MATTE TIN ON TAIL
3: 15u"Min Au ON CONTACT AREA,
 100u"Min MATTE TIN ON TAIL
4: 30u" Au ON CONTACT AREA,
 100u"Min MATTE TIN ON TAIL

LAST CIRCUIT



PART NUMBER	POS.	A	B	C
10136655-02XXLF	02	9.65	3.00	14.20
10136655-03XXLF	03	12.65	6.00	17.20
10136655-04XXLF	04	15.65	9.00	20.20
10136655-05XXLF	05	18.65	12.00	23.20
10136655-06XXLF	06	21.65	15.00	26.20
10136655-07XXLF	07	24.65	18.00	29.20
10136655-08XXLF	08	27.65	21.00	32.20
10136655-09XXLF	09	30.65	24.00	35.20
10136655-10XXLF	10	33.65	27.00	38.20
10136655-11XXLF	11	36.65	30.00	41.20
10136655-12XXLF	12	39.65	33.00	44.20

mat'l. code				surface		tolerance		projection		product family											
				ISO 1302 ✓		ISO 406 ISO 1101				MINITEK PWR3.0											
ltr	ecn no	dr	date	tolerances unless		otherwise specified				title											
A		TAI	2015-09-23	angles	linear	.0±.30				MINITEK PWR3.0 R/A HEADER,SINGLE ROW, SMT TAILS AND HOLD DOWN											
B	ELX-N-30279	TONY	2018-05-25			.00±.20															
C	ELX-I-43460	ASLAM	2022-01-21			0°±2°															
				dr	TONY LENG	2018-05-25			dwg no										sheet 1 of 2	size	
				engr	AKHIL RAJAN	2022-01-21			10136655										A3		
				chr	MITHUN PAUL	2022-01-21															
				appd	SPK	2022-01-21															
sheet index		revision sheet		C	C							type Product Customer Drawing									
				1	2																



1

2 3

4

5

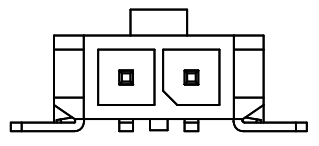
6

A

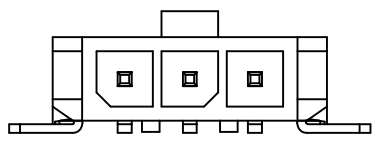
B

C

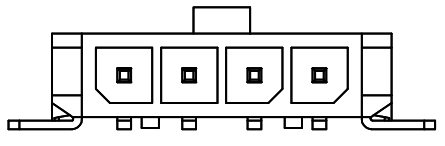
D



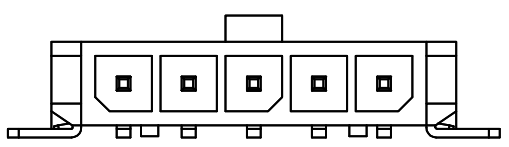
2 POS



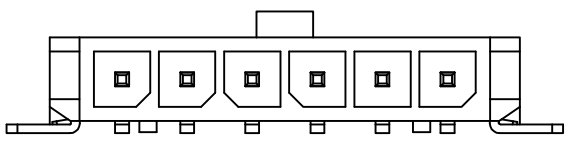
3 POS



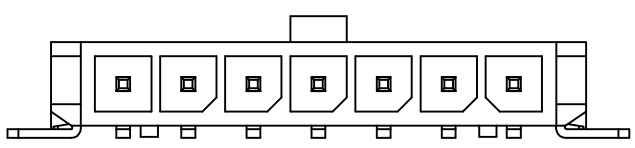
4 POS



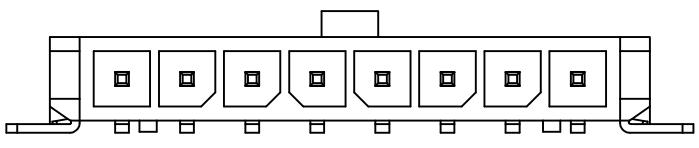
5 POS



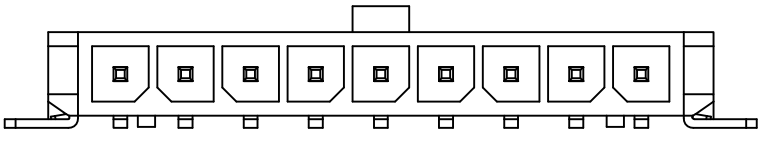
6 POS



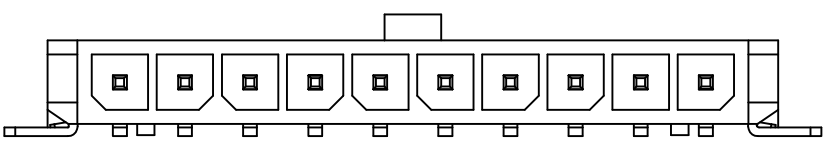
7 POS



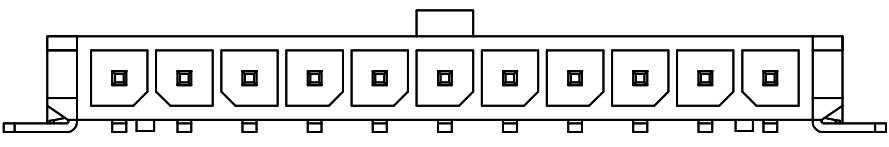
8 POS



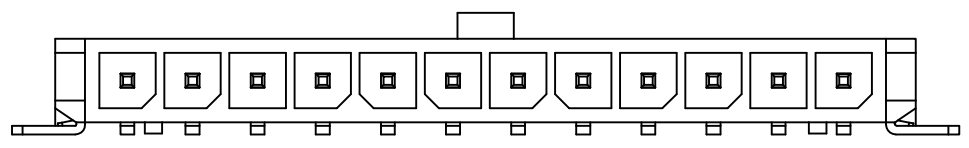
9 POS



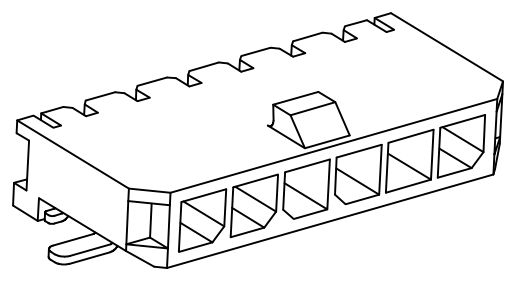
10 POS



11 POS



12 POS



A

B

C

D

mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family MINITEK PWR3.0											
ltr	ecn no	dr	date	tolerances unless otherwise specified						 mm scale N.T.S		title									
				angles		linear		.0±.30				MINITEK PWR3.0 R/A HEADER,SINGLE ROW, SMT TAILS AND HOLD DOWN									
								.00±.20													
				0°±2°																	
				dr	TONY LENG		2018-05-25				dwg no					sheet 2 of 2					size
				engr	AKHIL RAJAN		2022-01-21				10136655										A3
				chr	MITHUN PAUL		2022-01-21														
				appd	SPK		2022-01-21														
sheet index		revision sheet		C	C																
				1	2																

1

2

3

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6

NOTE:

1. MATERIAL:
HOUSING: LCP, UL94V-0, HALOGEN FREE, COLOR: OPTION
CONTACT: COPPER ALLOY.

2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA,TIN ON SOLDER TAIL.

3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.

4. PRODUCT SPECIFICATION: GS-12-1177.

5. PACKAGE SPECIFICATION: GS-14-2359.

6. APPLICATION SPECIFICATION: GS-20-0399

7. THE HOUSING WILL WITHSTAND EXPOSURE TO
260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.

8. THE HOUSING WILL WITHSTAND EXPOSURE TO
235°C PEAK TEMPERATURE FOR 5 SECONDS IN A WAVE SOLDER

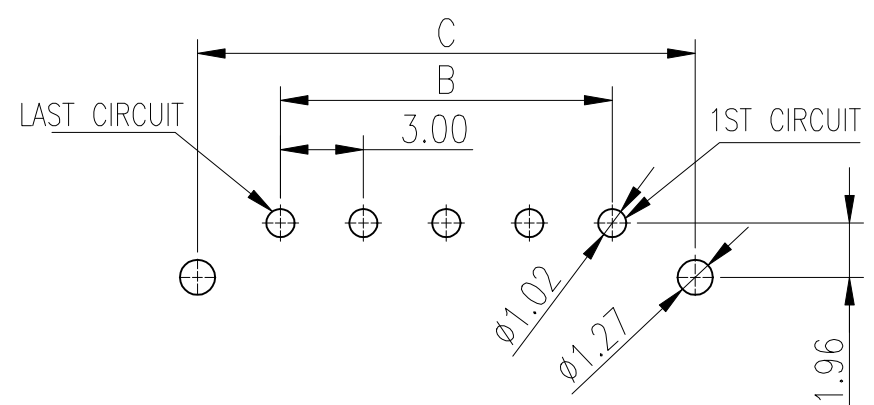
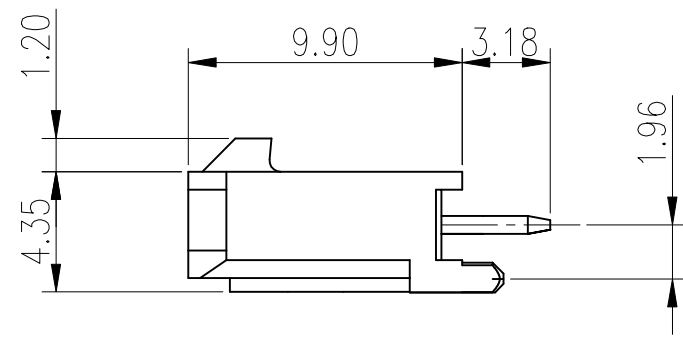
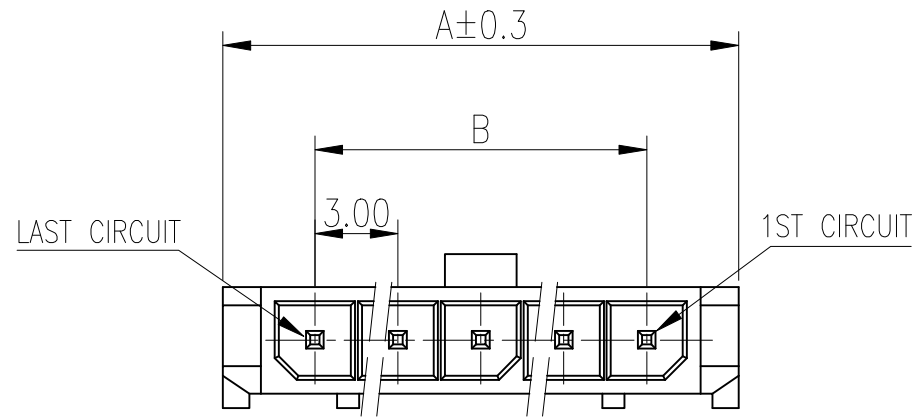
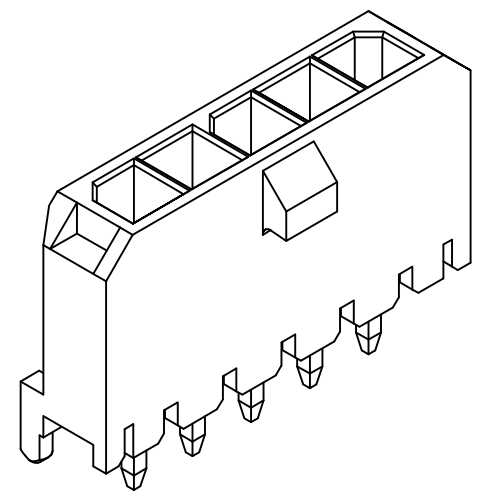
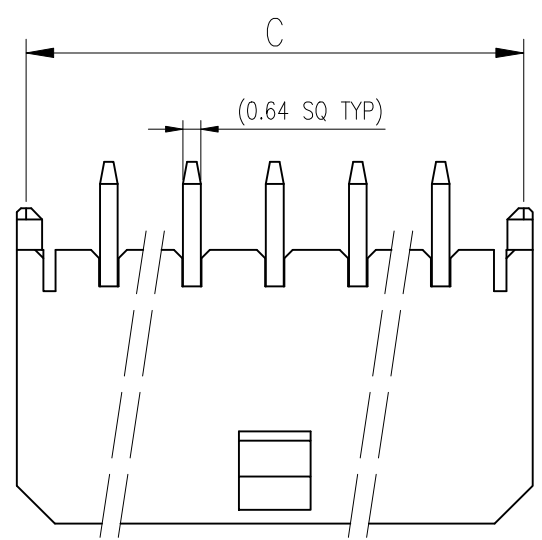
9. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES
AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004

10. PART NUMBER SCHEME:
10136656- XX X X X X LF

POS. CODE: _____
02: 2 POS
03: 4 POS
 3
12: 12 POS

PLATING CODE: _____
1: 100u" Min. MATTE TIN OVERALL
2: GOLD FLASH OVERALL
3: 15u"Min Au ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL
4: 30u" Au ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL

LEAD FREE
PACKAGE:
BLANK: TRAY
T: TAPE & REEL
HOUSING COLOR:
BLANK: BLACK
N: NATURAL
GLOW WIRE COMPATIBLE:
1: COMPATIBLE
2: NON-COMPATIBLE



RECOMMENDED PCB LAYOUT: COMPONENT SIDE
THICKNESS: 1.60±0.05mm
(GENERAL TOLERANCE: ±0.05)

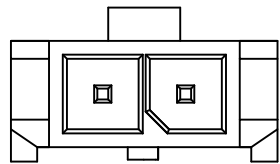
PART NO.	POS.	A	B	C
10136656-02XXXXLF	02	9.65	3.0	9.0
10136656-03XXXXLF	03	12.65	6.0	12.0
10136656-04XXXXLF	04	15.65	9.0	15.0
10136656-05XXXXLF	05	18.65	12.0	18.0
10136656-06XXXXLF	06	21.65	15.0	21.0
10136656-07XXXXLF	07	24.65	18.0	24.0
10136656-08XXXXLF	08	27.65	21.0	27.0
10136656-09XXXXLF	09	30.65	24.0	30.0
10136656-10XXXXLF	10	33.65	27.0	33.0
10136656-11XXXXLF	11	36.65	30.0	36.0
10136656-12XXXXLF	12	39.65	33.0	39.0

mat'l. code				surface	tolerance		projection	product family							
				ISO 1302	ISO 406	ISO 1101		MINITEK PWR3.0							
ltr	ecn no	dr	date	tolerances unless otherwise specified				title							
A		TAI	2015-09-23	angles	linear	.0±.30	mm	MINITEK PWR3.0 VERTICAL HEADER,SINGLE ROW,THROUGH							
B	ELX-N-28267	TONY	2017-10-26			.00±.20									
C	ELX-I-43460	AKHIL	2022-01-21			0°±2°									
				dr	KENNY TAI	2015-08-21	scaleN.T.S	dwg no							
				engr	AKHIL RAJAN	2022-01-21		10136656							
				chr	MITHUN PAUL	2022-01-21									
				appd	SPK	2022-01-21									
sheet index		revision sheet	C 1	C 2											

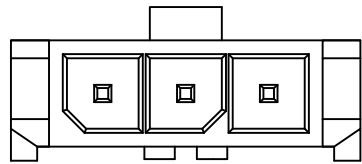
AFCI CONFIDENTIAL

Amphenol
FCi

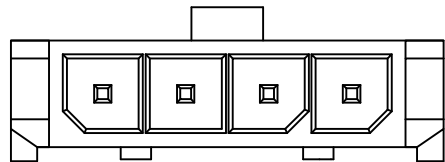
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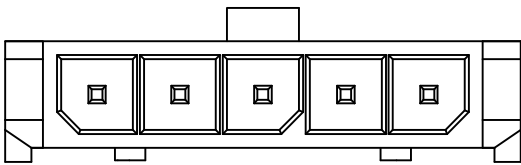
2 POS



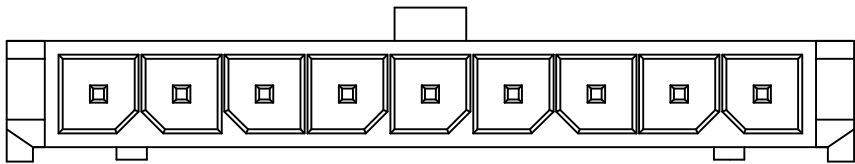
3 POS



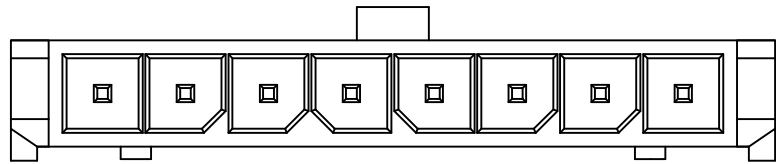
4 POS



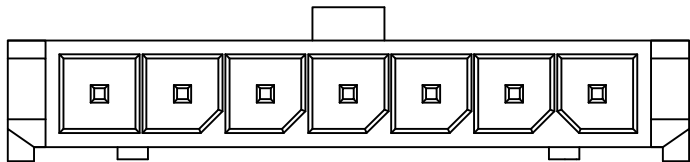
5 POS



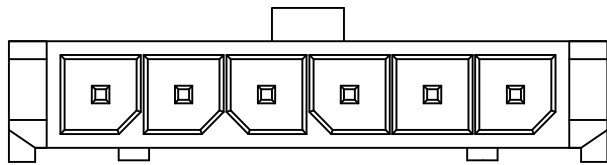
9 POS



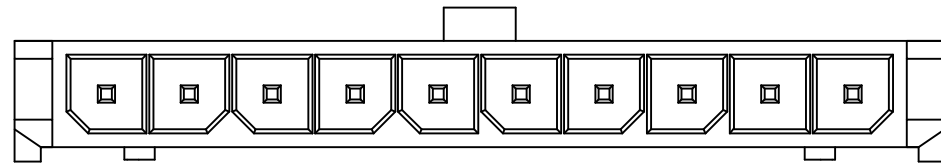
8 POS



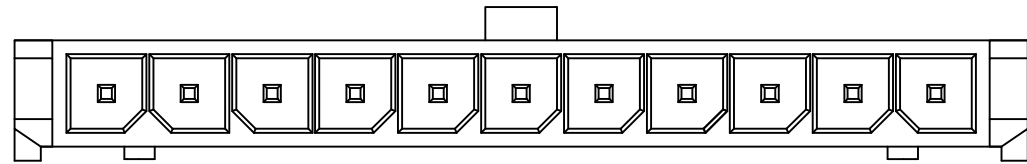
7 POS



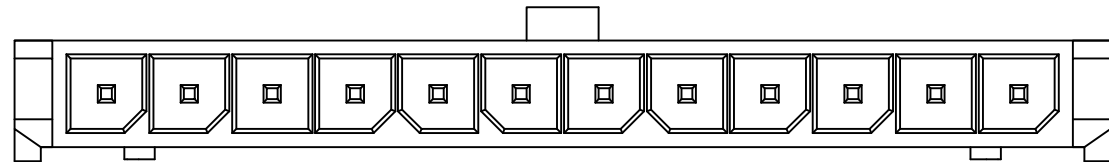
6 POS



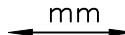
10 POS



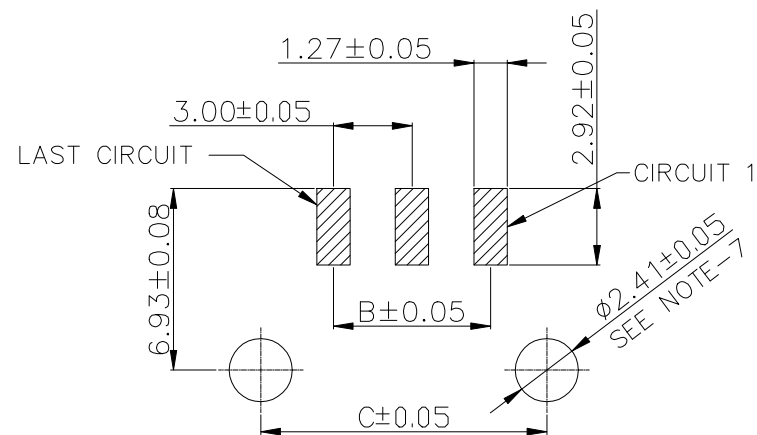
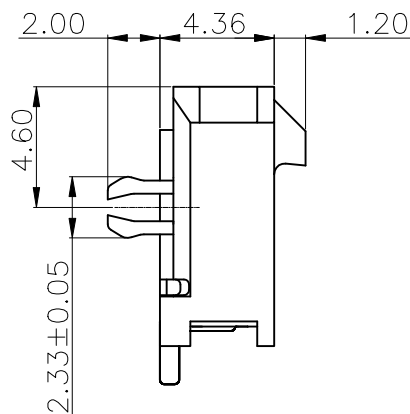
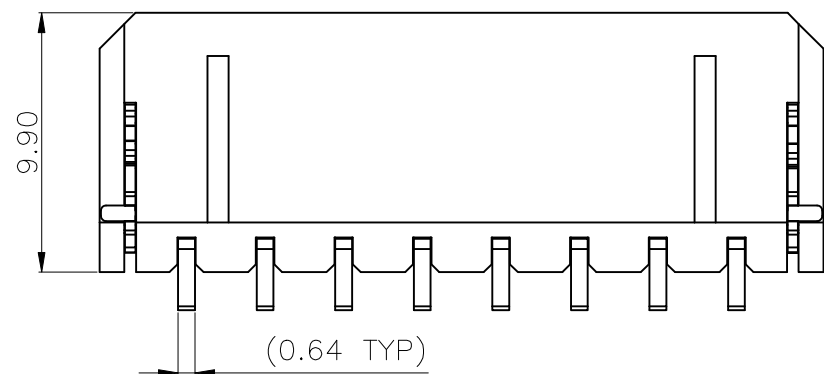
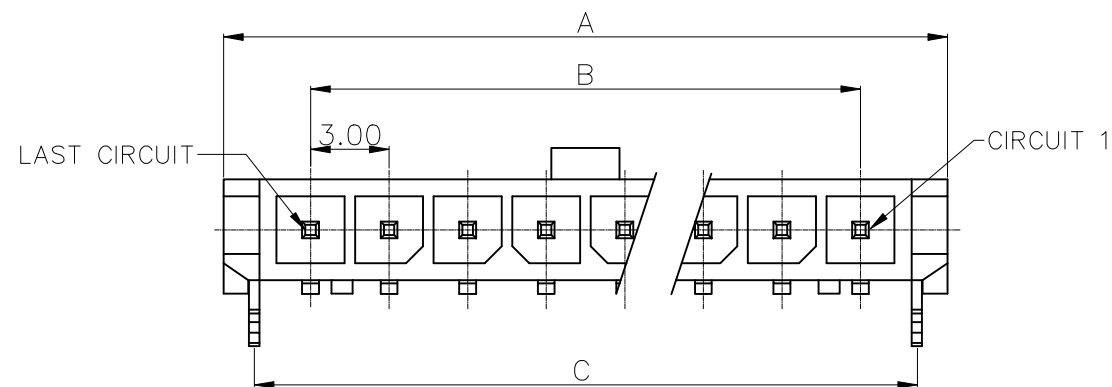
11 POS



12 POS

mat'l. code				surface ISO 1302 ☒		tolerance ISO 406 ISO 1101		projection 		product family MINITEK PWR3.0									
ltr	ecn no	dr	date	tolerances unless otherwise specified						title MINITEK PWR3.0 VERTICAL HEADER,SINGLE ROW,THROUGH									
				angles	linear	.0±.30													
						.00±.20													
				0°±2°				scale		N.T.S									
				dr	KENNY TAI		2015-08-21				dwg no		sheet 2 of 2				size		
				engr	AKHIL RAJAN		2022-01-21				10136656		A3						
				chr	MITHUN PAUL		2022-01-21												
				appd	SPK		2022-01-21				type		Product Customer Drawing						
sheet index		revision sheet		C	C														
				1	2														

PRODUCT NUMBER
SEE PART NO. SCHEME



RECOMMENDED PAB LAYOUT
PCB THICKNESS=1.6mm. TOLERANCE:±0.05

- NOTE:
- MATERIAL:
HOUSING: LCP, UL94V-0, HALOGEN FREE, COLOR: BLACK
CONTACT: COPPER ALLOY.
METAL HOLD DOWN: COPPER ALLOY
 - CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA,100u" MIN MATTE TIN ON SOLDER TAIL.
METAL HOLD DOWN FINISH: 100u" MIN MATTE TIN OVER 50u" Min. NICKEL
 - REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
 - PRODUCT SPECIFICATION: GS-12-1177.
 - TAPE & REEL PACKAGE SPECIFICATION: GS-14-2359.
 - APPLICATION SPECIFICATION: GS-20-0399
 - TO MINIMIZE THE INSERTION FORCE OF MOUNTING CLIP DURING ROBOTIC PLACEMENT THE PCB HOLE DIAMETER SHOULD BE INCREASED TO 2.74±0.05mm
 - THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
 - LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
 - PART NUMBER SCHEME:
10137867- XX X X LF
- POS. CODE: ————
- 02: 2 POS
03: 4 POS
12: 12 POS
S1: SEE SHEET-2
- LEAD FREE
- GLOW WIRE COMPATIBLE:
1: COMPATIBLE
2: NON-COMPATIBLE
- PLATING CODE:
1: 100u" Min. MATTE TIN OVERALL
2: GOLD FLASH ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL
3: 15u"Min Au ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL
4: 30u" Au ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL

PART NUMBER	POS.	A	B	C
10137867-02XXLF	02	9.65	3.0	7.3
10137867-03XXLF	03	12.65	6.0	10.3
10137867-04XXLF	04	15.65	9.0	13.3
10137867-05XXLF	05	18.65	12.0	16.3
10137867-06XXLF	06	21.65	15.0	19.3
10137867-07XXLF	07	24.65	18.0	22.3
10137867-08XXLF	08	27.65	21.0	25.3
10137867-09XXLF	09	30.65	24.0	28.3
10137867-10XXLF	10	33.65	27.0	31.3
10137867-11XXLF	11	36.65	30.0	34.3
10137867-12XXLF	12	39.65	33.0	37.3

mat'l. code				surface		tolerance		projection	product family									
				ISO 1302		ISO 406		ISO 1101	MINITEK PWR3.0									
ltr	ecn no	dr	date	tolerances unless		otherwise specified			title									
A		TAI	2015-11-25	angles				.0±.30	MINITEK PWR3.0 R/A HEADER, SINGLE ROW, SMT TAILS AND DIP BOARD LOCK									
B	ELX-I-43460	AKHIL	2022-01-21	linear				.00±.20										
				0°±x°				.000±0	scaleN.T.S									
				dr	KENNY TAI	2015-11-25			Amphenol FCI									
				engr	AKHIL RAJAN	2022-01-21												
				chr	MITHUN PAUL	2022-01-21												
				appd	SPK	2022-01-21												
sheet index	revision sheet	B 1	B 2															

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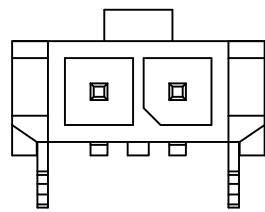
©

D

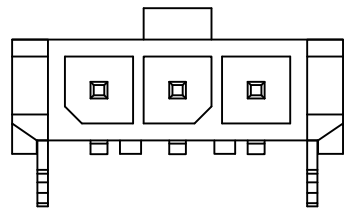
C

B

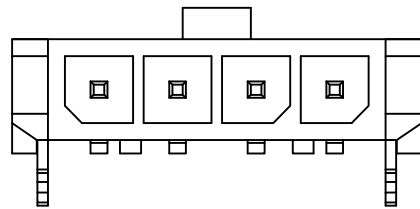
A



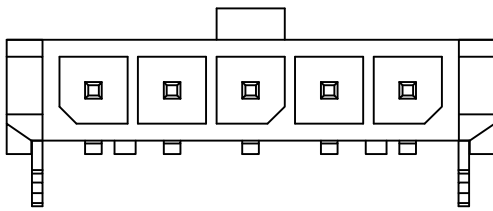
2 POS



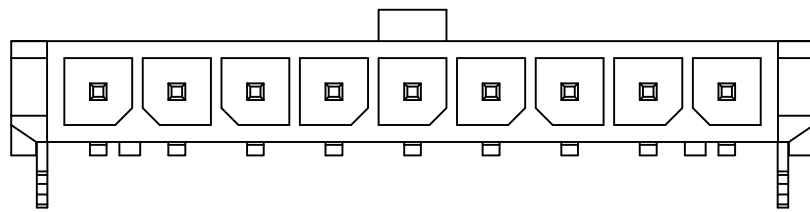
3 POS



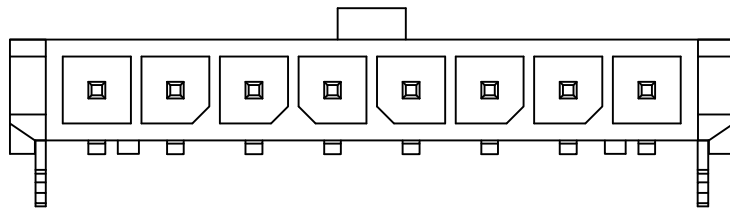
4 POS



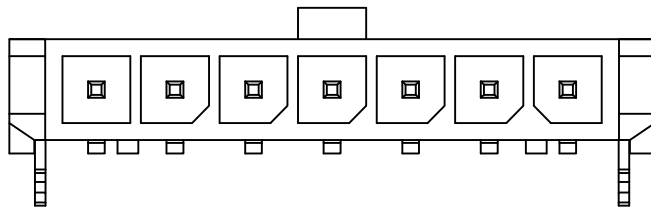
5 POS



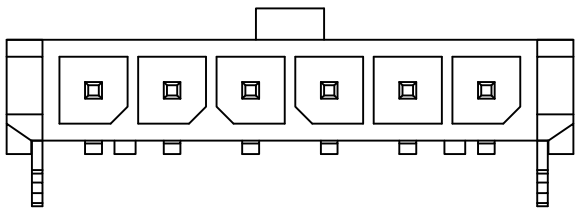
9 POS



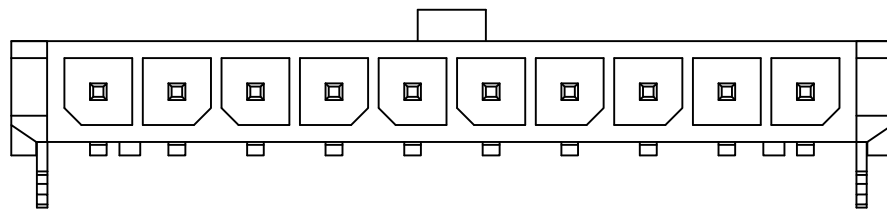
8 POS



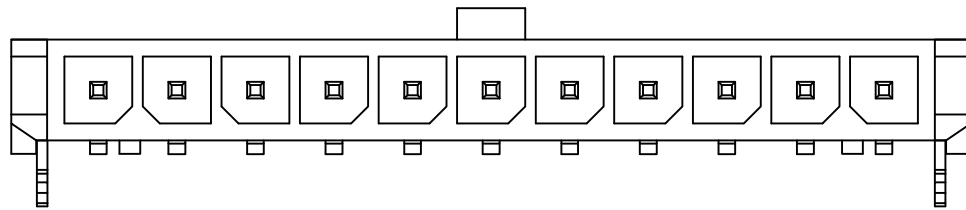
7 POS



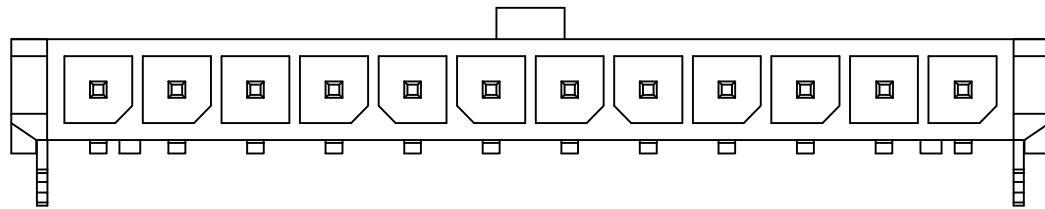
6 POS



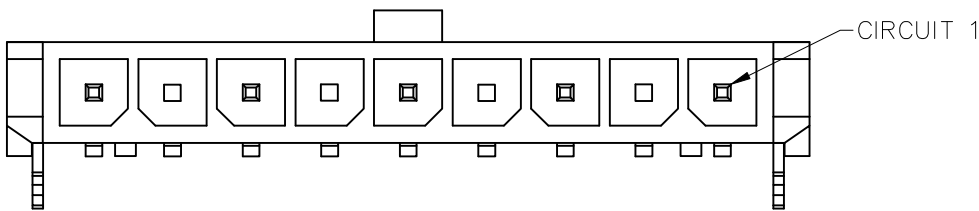
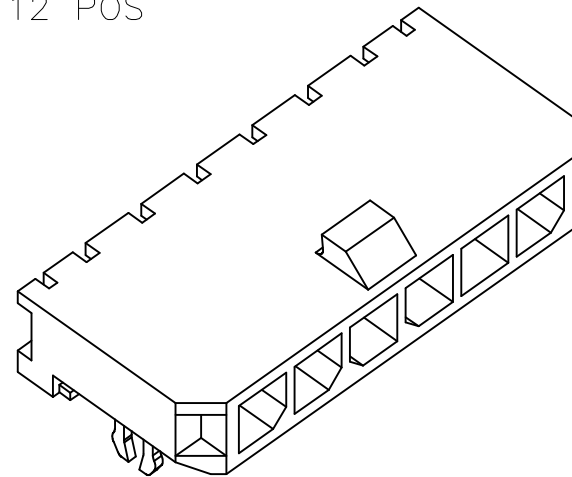
10 POS



11 POS



12 POS



S1 : 9 Pos (CIRCUIT 2,4,6&8 REMOVED)

mat'l. code				surface ☒ ISO 1302		tolerance ☒ ISO 406 ☐ ISO 1101		projection		product family MINITEK PWR3.0									
ltr	ecn no	dr	date	tolerances unless otherwise specified		angles linear		mm		title MINITEK PWR3.0 R/A HEADER, SINGLE ROW, SMT TAILS AND DIP BOARD LOCK									
				0°±x'				scale		N.T.S									
				dr	KENNY TAI	2015-11-25				dwg no		sheet		2 of 2		size			
				engr	AKHIL RAJAN	2022-01-21				10137867				A3					
				chr	MITHUN PAUL	2022-01-21													
				appd	SPK	2022-01-21				type		Product Customer Drawing							
sheet index	revision sheet	B 1	B 2																

D

C

B

A

6

5

4

3

2

1



A

B

C

D

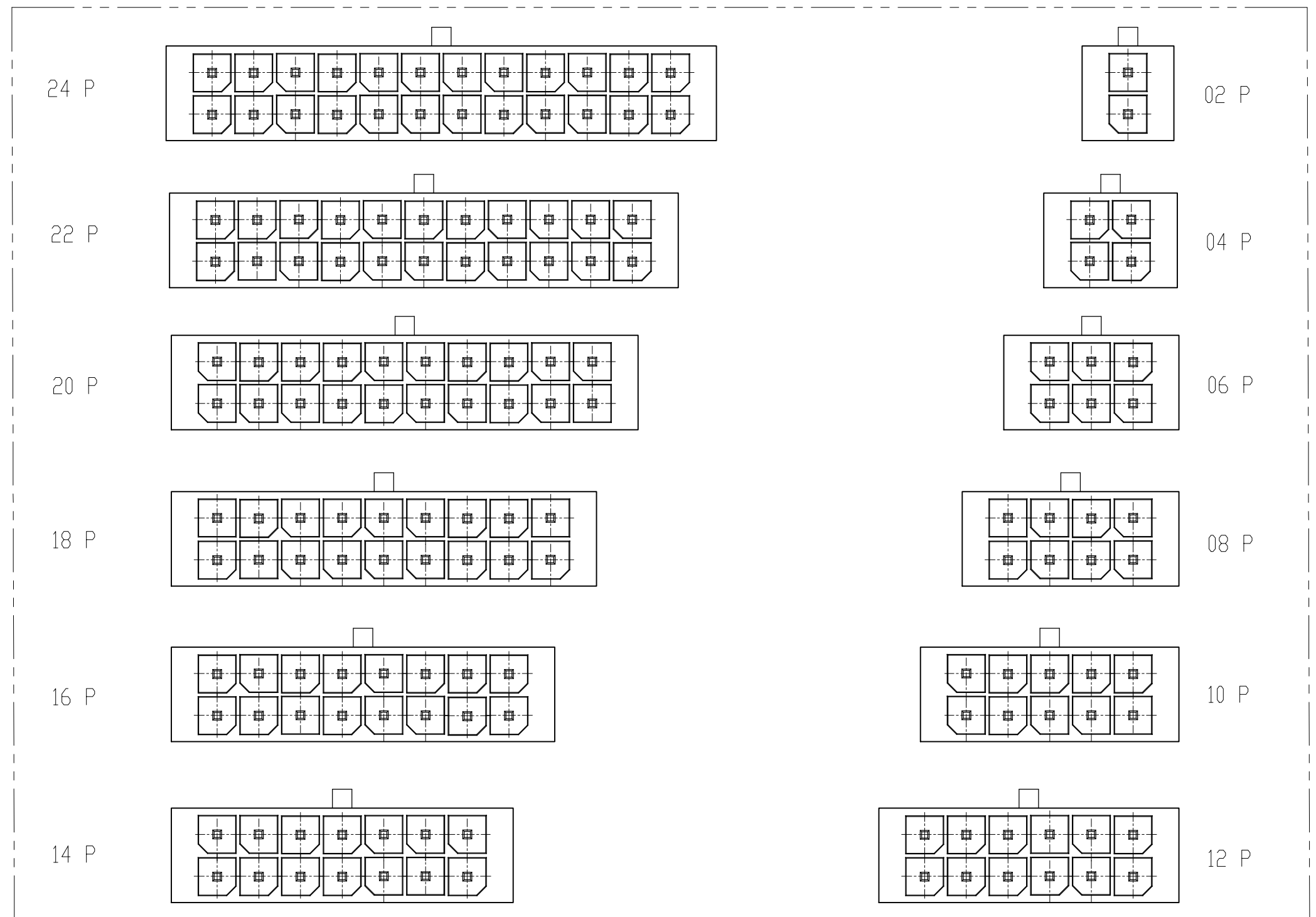
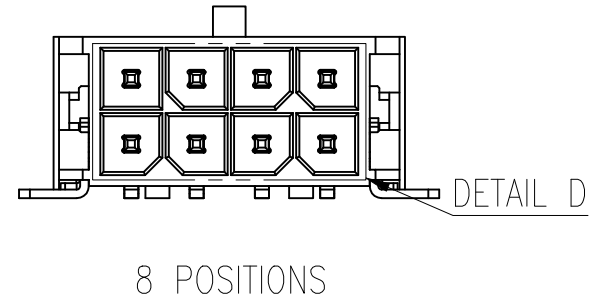
1

2 3

4

5

6



A

B

C

D

mat'l. code				surface		tolerance		projection		product family											
				ISO 1302 ✓		ISO 406 ISO 1101				MINITEK PWR3.0											
ltr	ecn no	dr	date	tolerances unless otherwise specified								title									
				angles		linear		.0±.30				MINITEK PWR 3.0 R/A HEADER, DUAL ROW SMT TAIL & HOLD DOWN									
								.00±.20													
				0°±2°						scale											
				dr	KENNY TAI		2015-11-26				dwg no				sheet 2 of 2				size		
				engr	AKHIL RAJAN		2022-01-21				10137924				A3						
				chr	MITHUN PAUL		2022-01-21														
				appd	SPK		2022-01-21														
sheet index		revision sheet		E	E																
				1	2																

1

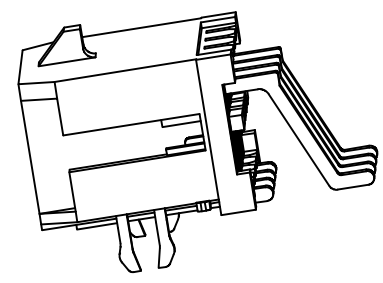
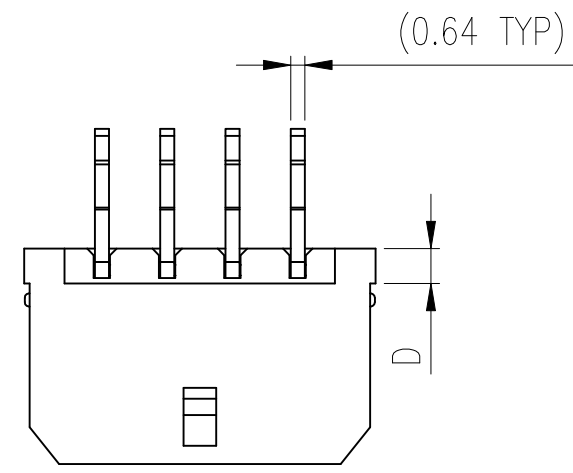
2

3

4

5

6

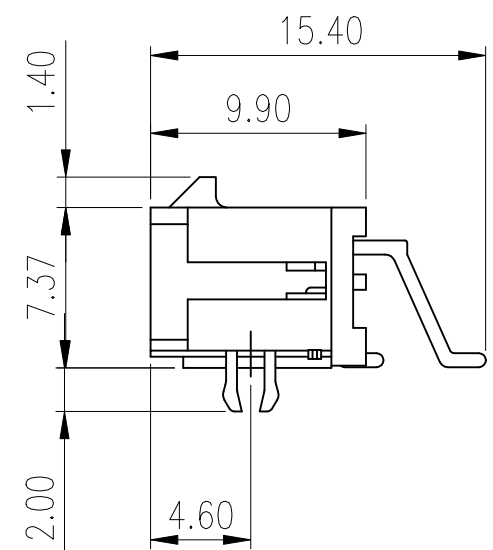
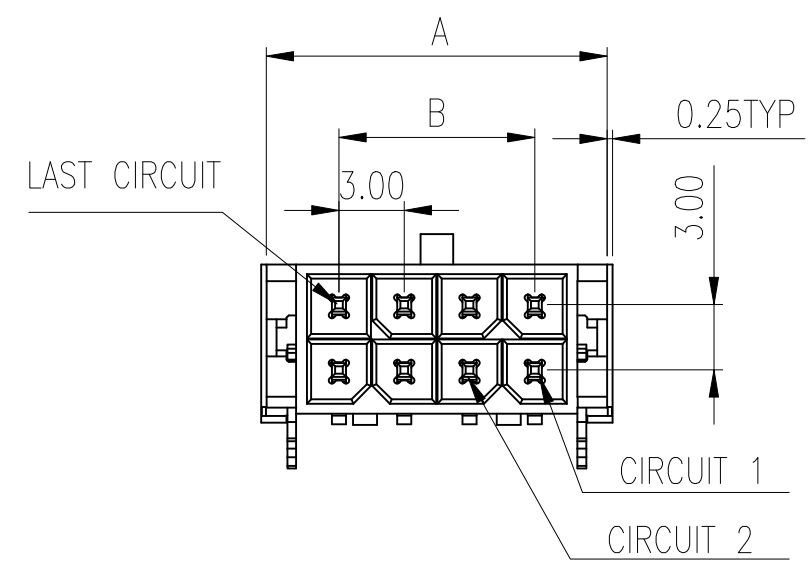


- NOTE:
1. MATERIAL:
HOUSING: LCP, UL94V-0, HALOGEN FREE, COLOR: BLACK
CONTACT: COPPER ALLOY.
HOLD DOWN: COPPER ALLOY
 2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, 100u" MIN MATTE TIN ON SOLDER TAIL.
HOLD DOWN: 100u" MIN MATTE TIN OVER 50u" Min. NICKEL
 3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
 4. PRODUCT SPECIFICATION: GS-12-1177.
 5. TAPE & REEL PACKAGE SPECIFICATION: GS-14-2359.
 6. APPLICATION SPECIFICATION: GS-20-0399
 7. TO MINIMIZE THE INSERTION FORCE OF MOUNTING CLIP DURING ROBOTIC PLACEMENT THE PCB HOLE DIAMETER SHOULD BE INCREASED TO 2.74±0.05mm
 8. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
 9. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
 10. PART NUMBER SCHEME:
10137925- XX X X LF

POS. CODE:
02: 2 POS
04: 4 POS
S
24: 24 POS

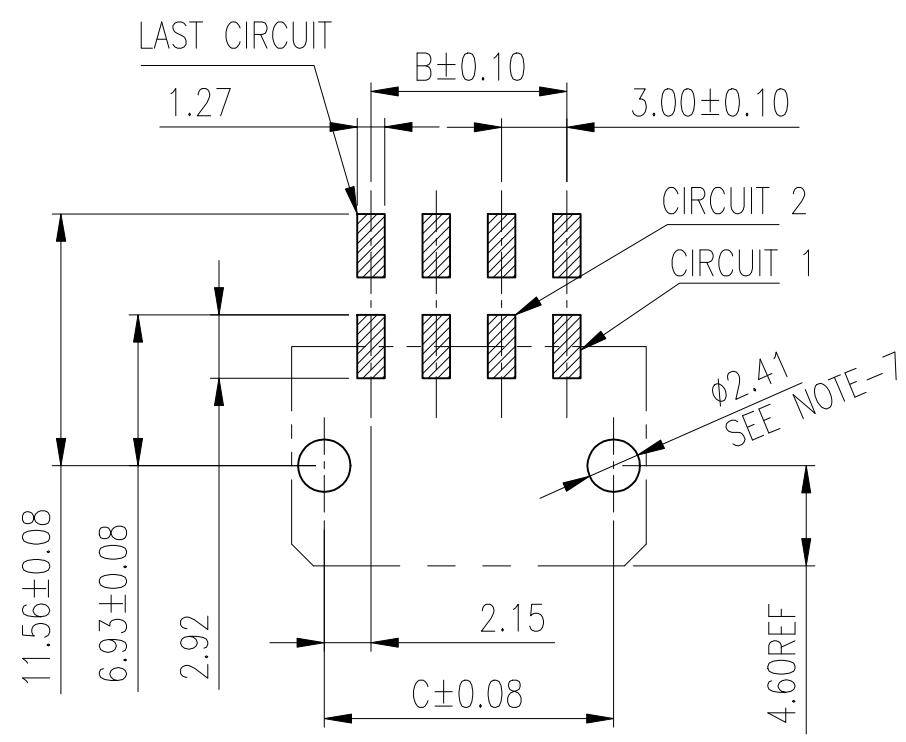
LEAD FREE
GLOW WIRE COMPATIBLE:
1: COMPATIBLE
2: NON-COMPATIBLE

PLATING CODE:
1: 100u" Min. MATTE TIN OVERALL
2: GOLD FLASH ON CONTACT AREA, 100u"Min MATTE TIN ON TAIL
3: 15u"Min Au ON CONTACT AREA, 100u"Min MATTE TIN ON TAIL
4: 30u" Au ON CONTACT AREA, 100u"Min MATTE TIN ON TAIL



P/N & DIMENSION TABLE

PART NO.	POS	A	B	C	D
10137925-02XXLF	02	6.65	NA	4.30	6.74
10137925-04XXLF	04	9.65	3.00	7.30	
10137925-06XXLF	06	12.65	6.00	10.30	
10137925-08XXLF	08	15.65	9.00	13.30	1.60
10137925-10XXLF	10	18.65	12.00	16.30	
10137925-12XXLF	12	21.65	15.00	19.30	
10137925-14XXLF	14	24.65	18.00	22.30	
10137925-16XXLF	16	27.65	21.00	25.30	
10137925-18XXLF	18	30.65	24.00	28.30	
10137925-20XXLF	20	33.65	27.00	31.30	
10137925-22XXLF	22	36.65	30.00	34.30	1.60
10137925-24XXLF	24	39.65	33.00	37.30	



RECOMMENDED PCB LAYOUT
PCB THICKNESS=1.60MM GENERAL TOLERANCE:±0.05

mat'l. code				surface ☒ ISO 1302 tolerance ☒ ISO 406 ISO 1101			projection		product family MINITEK PWR3.0									
ltr	ecn no	dr	date	tolerances unless otherwise specified					title									
A		TAI	2015-11-30	angles linear	0°±2°		mm		MINITEK PWR 3.0 R/A HEADER, DUAL ROW SMT TAILS & DIP HOLD DOWN									
B	ELX-N-24982	TAI	2016-09-21															
C	ELX-I-43460	AKHIL	2022-01-21				scale N.T.S											
				dr	KENNY TAI	2015-11-26			dwg no sheet 1 of 2 size									
				engr	AKHIL RAJAN	2022-01-21			10137925 A3									
				chr	MITHUN PAUL	2022-01-21												
				appd	SPK	2022-01-21			type Product Customer Drawing									
sheet index		revision sheet		C	C													
				1	2													

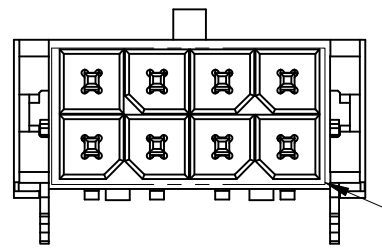


A

B

C

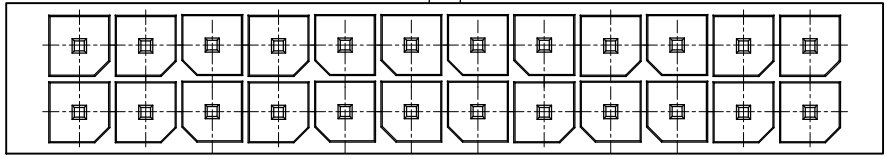
D



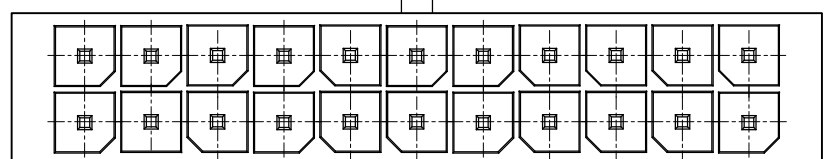
8 POSITIONS

DETAIL D

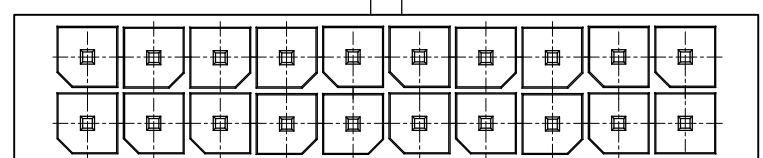
24 P



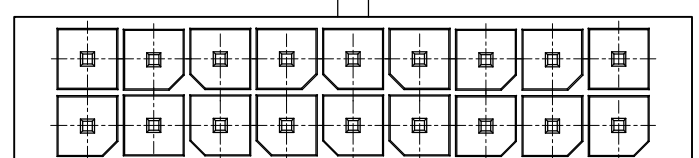
22 P



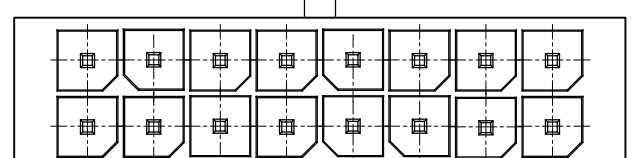
20 P



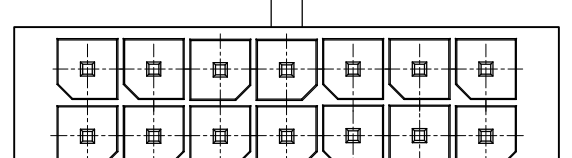
18 P



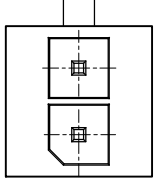
16 P



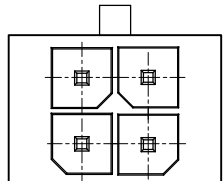
14 P



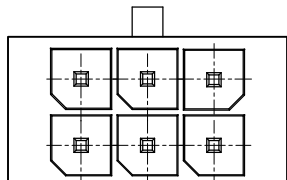
02 P



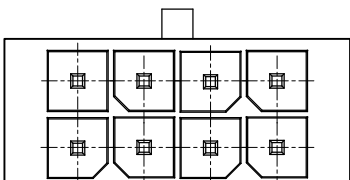
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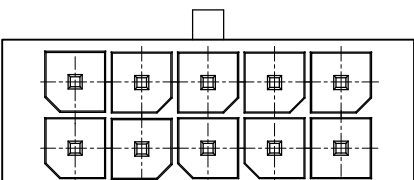
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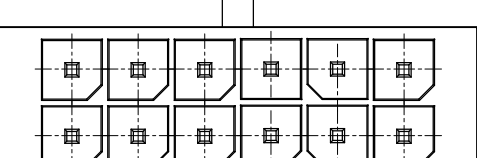
08 P



10 P



12 P



DETAIL D

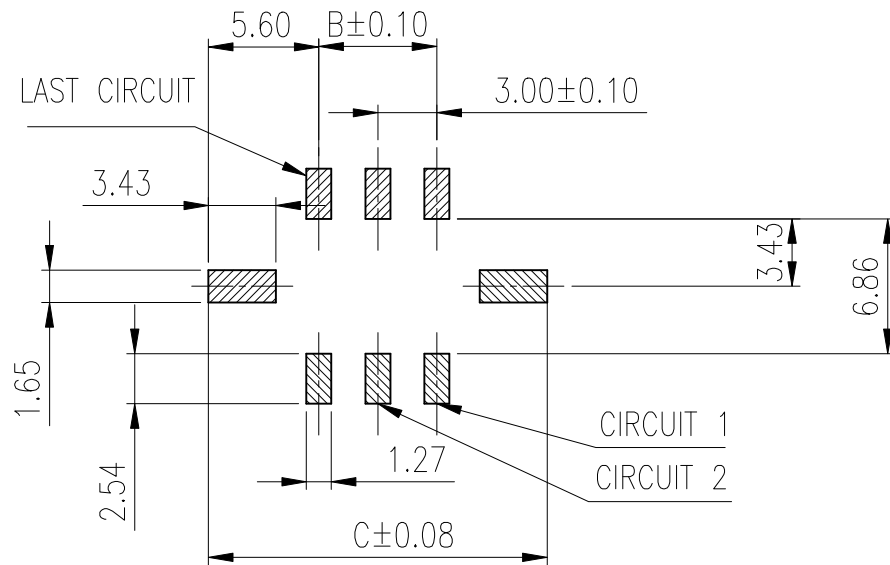
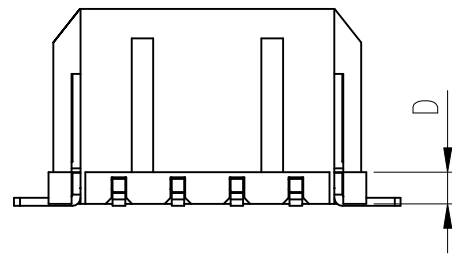
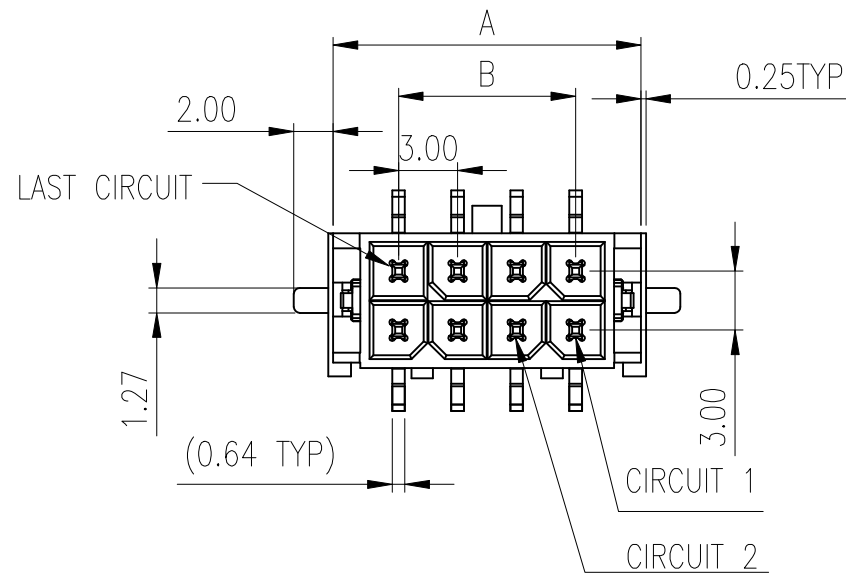
mat'l. code				surface		tolerance		projection		product family										
				ISO 1302		ISO 406 ISO 1101				MINITEK PWR3.0										
ltr	ecn no	dr	date	tolerances unless otherwise specified						title										
				angles	linear	.0±.30				MINITEK PWR 3.0 R/A HEADER, DUAL ROW SMT TAILS & DIP HOLD DOWN										
						.00±.20														
				0°±2°				scale		N.T.S										
				dr	KENNY TAI		2015-11-26				dwg no				sheet 2 of 2				size	
				engr	AKHIL RAJAN		2022-01-21				10137925				A3					
				chr	MITHUN PAUL		2022-01-21													
				appd	SPK		2022-01-21													
sheet index		revision	C	C																
		sheet	1	2																

A

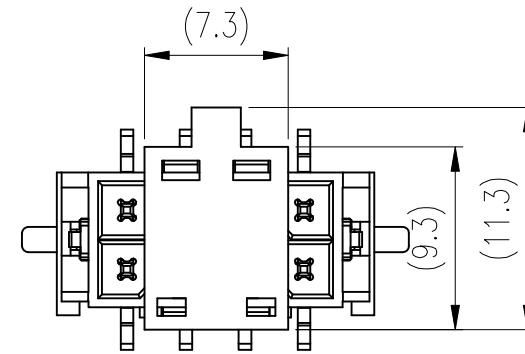
B

C

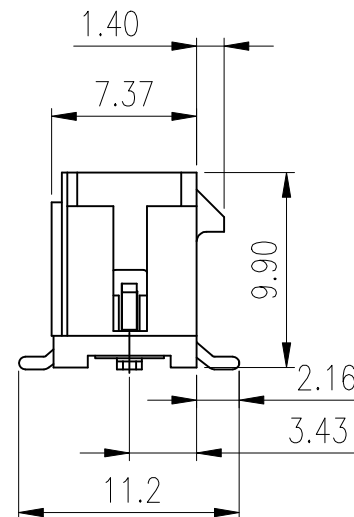
D



RECOMMENDED PCB LAYOUT
GENERAL TOLERANCE:±0.05



SHOWN WITH DISPOSABLE CAP



NOTE:

1. MATERIAL:
HOUSING: LCP, UL94V-0, HALOGEN FREE, COLOR: BLACK
CONTACT: COPPER ALLOY.
HOLD DOWN: COPPER ALLOY
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA,100u" MIN MATTE TIN ON SOLDER TAIL.
HOLD DOWN: 100u" MIN MATTE TIN OVER 50u" Min. NICKEL
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
4. PRODUCT SPECIFICATION: GS-12-1177.
5. TAPE & REEL PACKAGE SPECIFICATION: GS-14-2359.
6. APPLICATION SPECIFICATION: GS-20-0399
7. THE HOUSING WILL WITHSTAND EXPOSURE TO
260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
8. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES
AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
9. PART NUMBER SCHEME:

10137926- XX X X X LF

POS. CODE:

02: 2 POS

04: 4 POS

S

24: 24 POS

LEAD FREE

PACKAGE:

1: TAPE&REEL WITHOUT PICKUP CAP

Q: TAPE&REEL WITH PICKUP CAP

(CUSTOMER SPECIAL)(FOR 2,8&16POS)

GLOW WIRE COMPATIBLE & COLOR:

1: COMPATIBLE, BLACK

2: NON-COMPATIBLE, BLACK

3: COMPATIBLE, NATURAL

4: NON-COMPATIBLE, NATURAL

PLATING CODE:

1: 100u" Min. MATTE TIN OVERALL

2: GOLD FLASH ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL

3: 15u"Min Au ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL

4: 30u" Au ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL

P/N & DIMENSION TABLE

PART NO	POS	A	B	C	D
10137926-02XXXLF	02	6.65	NA	11.20	6.74
10137926-04XXXLF	04	9.65	3.00	14.20	
10137926-06XXXLF	06	12.65	6.00	17.20	
10137926-08XXXLF	08	15.65	9.00	20.20	1.60
10137926-10XXXLF	10	18.65	12.00	23.20	
10137926-12XXXLF	12	21.65	15.00	26.20	
10137926-14XXXLF	14	24.65	18.00	29.20	
10137926-16XXXLF	16	27.65	21.00	32.20	
10137926-18XXXLF	18	30.65	24.00	35.20	
10137926-20XXXLF	20	33.65	27.00	38.20	
10137926-22XXXLF	22	36.65	30.00	41.20	
10137926-24XXXLF	24	39.65	33.00	44.20	

mat'l. code				surface		tolerance		projection		product family												
				ISO 1302 ✓		ISO 406 ISO 1101				MINITEK PWR3.0												
ltr	ecn no	dr	date	tolerances unless		otherwise specified				title												
A		TAI	2015-11-30	angles	linear	.0±.30		mm		MINITEK PWR3.0 VT HEADER, DUAL ROW SMT TAILS AND HOLD DOWN												
B	ELX-T-24935	TAI	2016-09-01			.00±.20																
C	ELX-N-27136	TONY	2017-06-02	0°±2°				scale N.T.S														
D	ELX-N-28649	TONY	2017-11-30	dr	KENNY TAI	2015-11-26				dwg no				sheet 1 of 2				size				
E	ELX-N-29278	TONY	2018-02-05	engr	AKHIL RAJAN	2022-01-21				10137926								A3				
F	ELX-I-43460	AKHIL	2022-01-21	chr	MITHUN PAUL	2022-01-21																
				appd	SPK	2022-01-21																
sheet index		revision sheet		F	F																	
				1	2																	

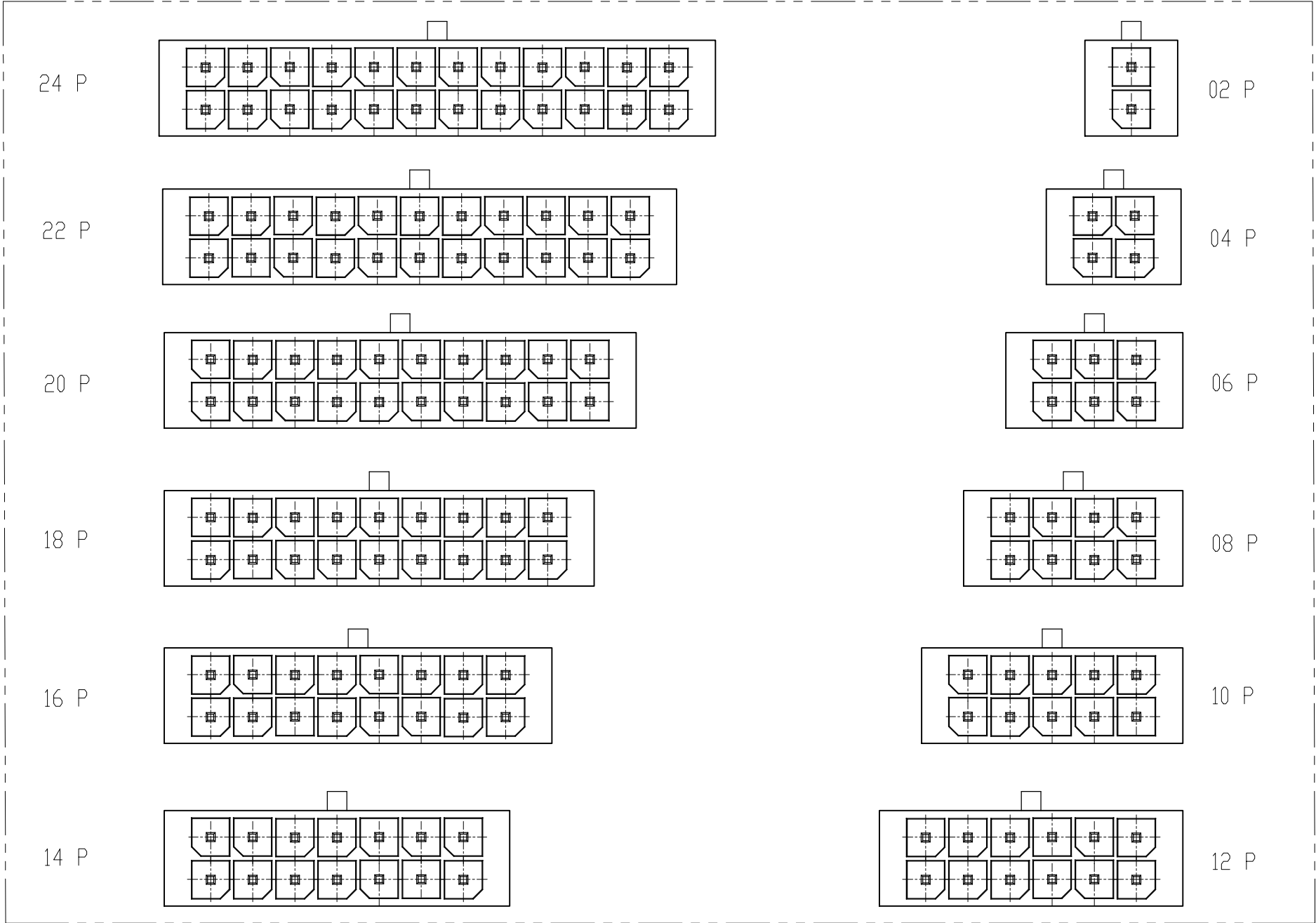
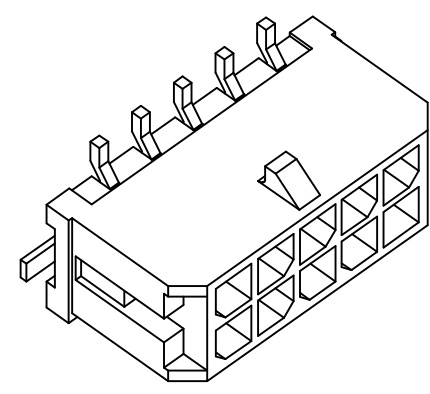
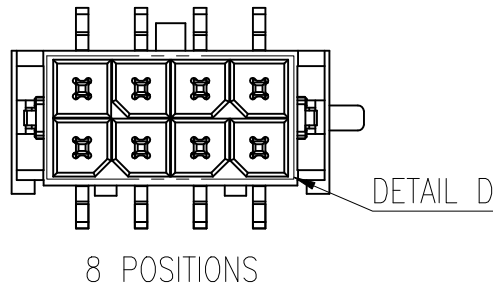


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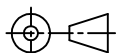
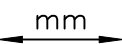
B

C

D



DETAIL D

mat'l. code				surface ISO 1302		tolerance ISO 406 ISO 1101		projection 		product family MINITEK PWR3.0									
ltr	ecn no	dr	date	tolerances unless		otherwise specified		 mm scale N.T.S		title MINITEK PWR3.0 VT HEADER, DUAL ROW SMT TAILS AND HOLD DOWN									
				angles		linear													
						.0±.30													
				0°±2°		.00±.20													
				dr	KENNY TAI		2015-11-26												
				engr	AKHIL RAJAN		2022-01-21												
				chr	MITHUN PAUL		2022-01-21												
				appd	SPK		2022-01-21												
sheet index		revision sheet		F	F														
				1	2														

1

2

3

4

5

6

A

B

C

D

6

5

4

3

2

1

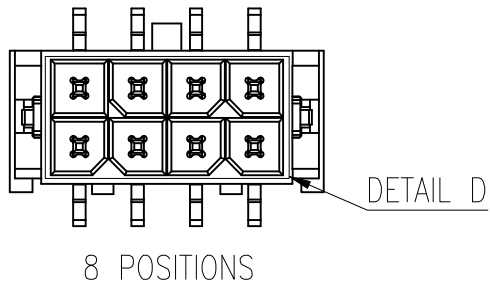


A

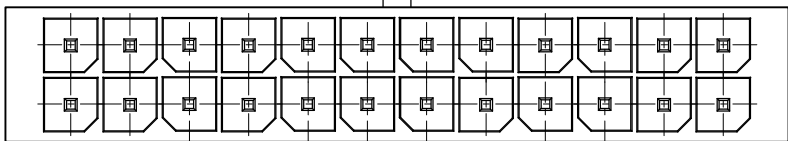
B

C

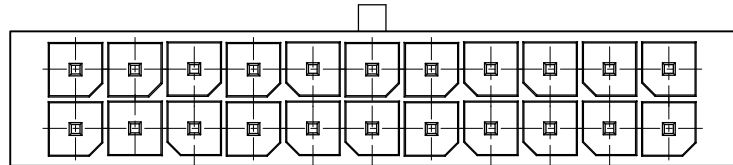
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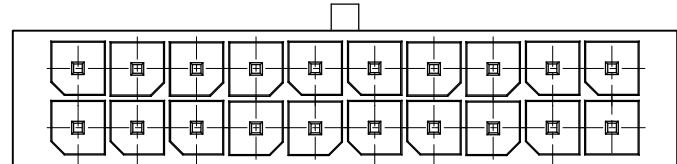
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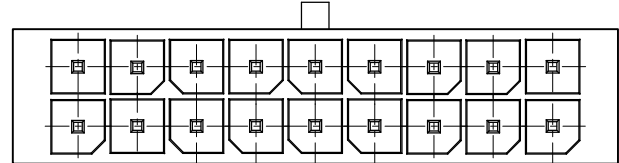
22 P



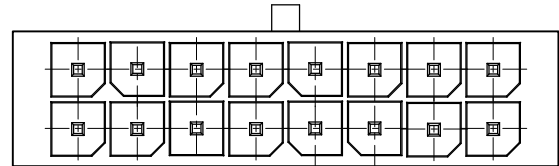
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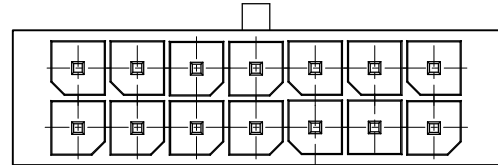
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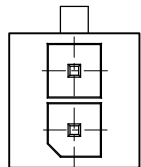
16 P



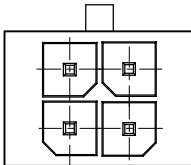
14 P



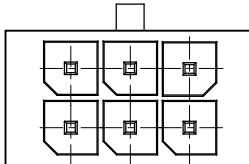
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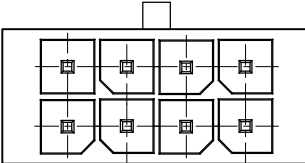
04 P



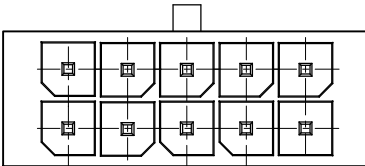
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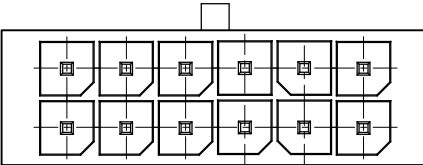
08 P



10 P

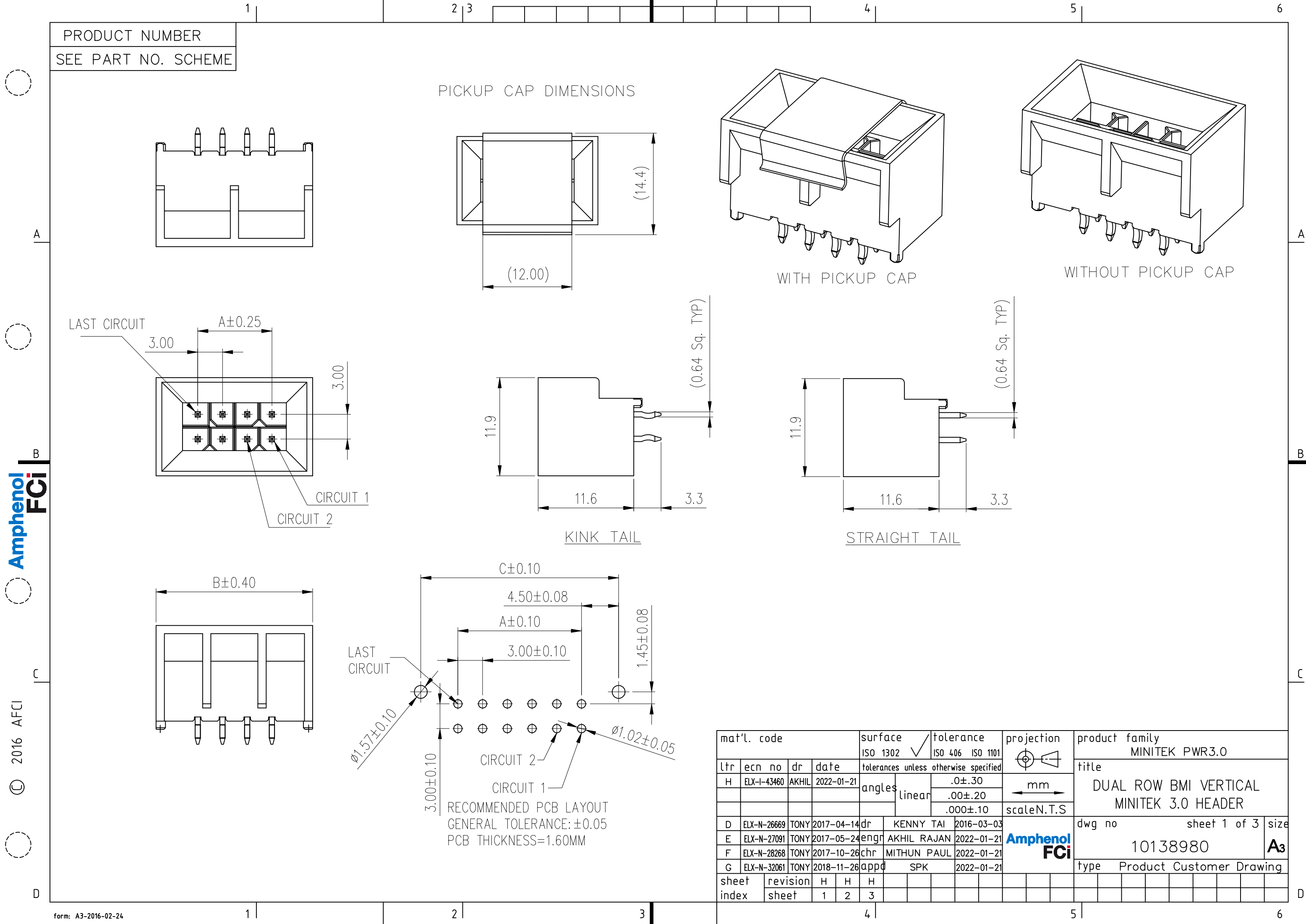


12 P



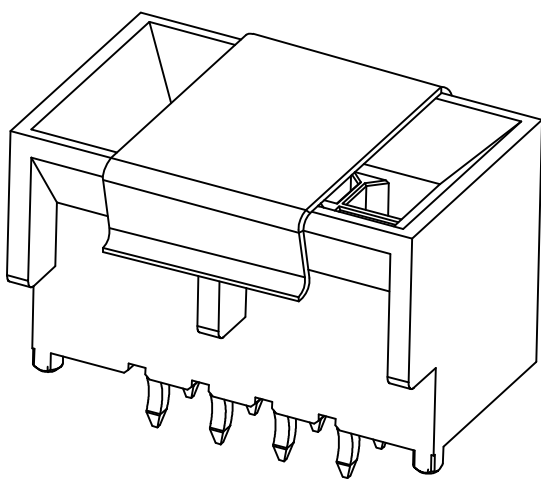
DETAIL D

mat'l. code				surface ISO 1302 ☒				tolerance ISO 406 ISO 1101				projection 				product family MINITEK PWR3.0																	
ltr	ecn no		dr	date		tolerances unless otherwise specified																title											
						angles		linear		.0±.30				scale		N.T.S		MINITEK PWR3.0 V/T HEADER, DUAL ROW SMT TAILS AND DIP HOLD DOWN															
						0°±2°				.00±.20																							
						dr		KENNY TAI		2015-11-26				dwg no				sheet 2 of 2				size											
						enr		AKHIL RAJAN		2022-01-21				10137927				A3															
						chr		MITHUN PAUL		2022-01-21																							
						appd		SPK		2022-01-21																							
sheet index		revision sheet		D	D																												
				1	2																												

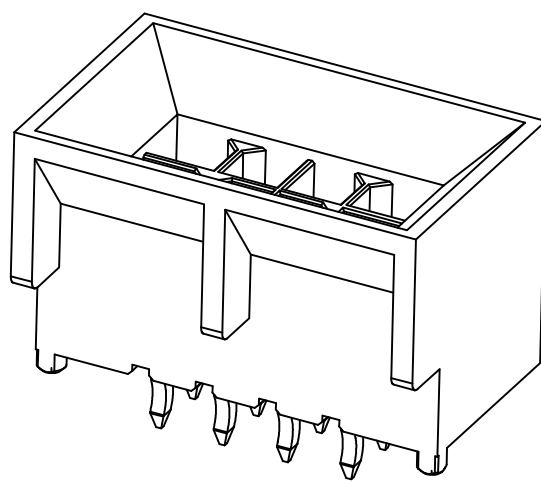


PRODUCT NUMBER
SEE PART NO. SCHEME

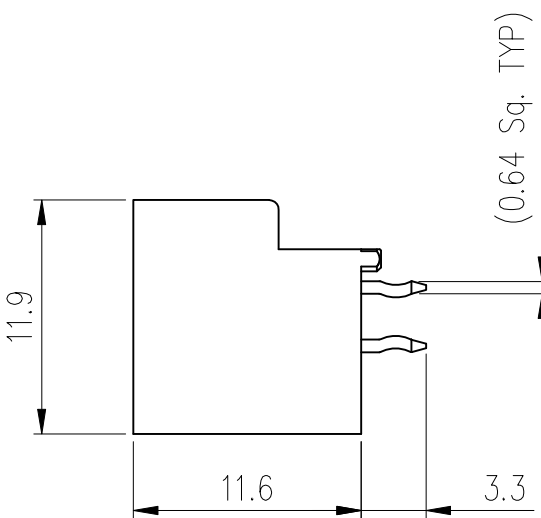
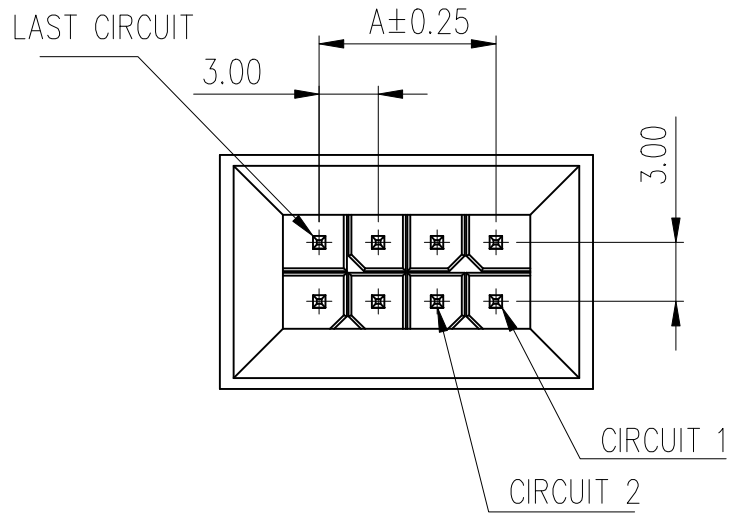
PICKUP CAP DIMENSIONS



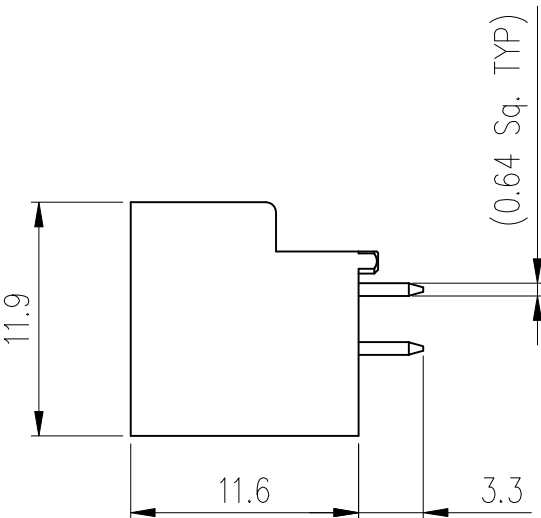
WITH PICKUP CAP



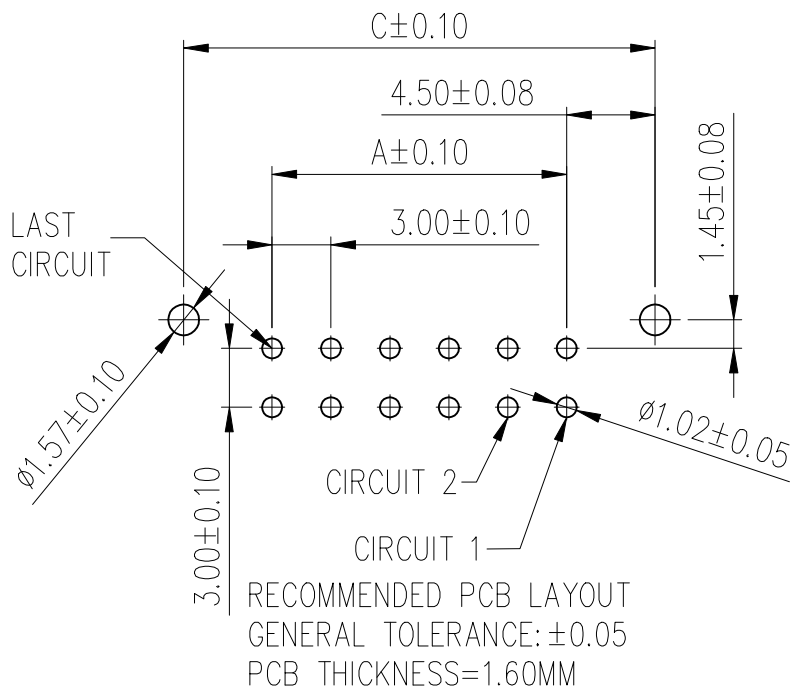
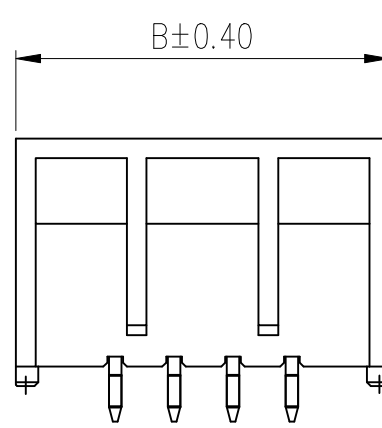
WITHOUT PICKUP CAP



KINK TAIL



STRAIGHT TAIL



RECOMMENDED PCB LAYOUT
GENERAL TOLERANCE: ±0.05
PCB THICKNESS=1.60MM

mat'l. code				surface		tolerance		projection		product family											
				ISO 1302		ISO 406 ISO 1101				MINITEK PWR3.0											
ltr	ecn no	dr	date	tolerances unless otherwise specified						 mm scaleN.T.S		title DUAL ROW BMI VERTICAL MINITEK 3.0 HEADER									
H	ELX-I-43460	AKHIL	2022-01-21	angles	linear	.0±.30															
						.00±.20															
						.000±.10															
D	ELX-N-26669	TONY	2017-04-14	dr	KENNY TAI		2016-03-03				dwg no				sheet 1 of 3				size		
E	ELX-N-27091	TONY	2017-05-24	engr	AKHIL RAJAN		2022-01-21				10138980								A3		
F	ELX-N-28268	TONY	2017-10-26	chr	MITHUN PAUL		2022-01-21														
G	ELX-N-32061	TONY	2018-11-26	appd	SPK		2022-01-21														
sheet index		revision		H	H	H															
		sheet		1	2	3															



1	2	3								4	5	6
NOTE: 1. MATERIAL: HOUSING: LCP, UL94V-0, HALOGEN FREE, COLOR: BLACK CONTACT: COPPER ALLOY. 2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL. OPTIONAL PLATING ON CONTACT AREA,TIN ON SOLDER TAIL. 3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR . 4. PRODUCT SPECIFICATION: GS-12-1177. 5. PACKAGE SPECIFICATION: GS-14-2359. 6. APPLICATION SPECIFICATION: GS-20-0399 7. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN. 8. THE HOUSING WILL WITHSTAND EXPOSURE TO 235°C PEAK TEMPERATURE FOR 5 SECONDS IN A WAVE SOLDER 9. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004 10. YET TO BE TOOLED UP 11. PART NUMBER SCHEME: 10138980- XX X X X X LF POS. CODE: 04: 4 POS 06: 6 POS S 24: 24 POS S1: SEE SHEET-3 S2: SEE SHEET-3 OPTIONAL PACKAEGS: BLANK: TRAY C: TAPE&REEL W/O CAP (TYPE-A) T: TAPE&REEL W/O CAP (TYPE-B) A: TAPE&REEL WITH CAP (TYPE-A)(SEE NOTE-10) B: TAPE&REEL WITH CAP (TYPE-B)(SEE NOTE-10) TAIL OPTION: BLANK: KINK S: STRAIGHT GLOW WIRE COMPATIBLE: 1: COMPATIBLE 2: NON-COMPATIBLE PLATING CODE: 1: 100u" Min. MATTE TIN OVERALL 2: GOLD FLASH OVERALL 3: 15u"Min Au ON CONTACT AREA, 100u"Min MATTE TIN ON TAIL 4: 30u" Au ON CONTACT AREA, 100u"Min MATTE TIN ON TAIL												

TAPE & REEL PACKING

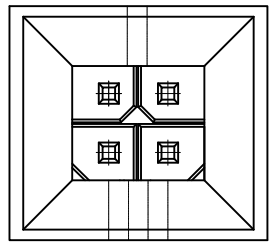
TYPE A

TYPE B

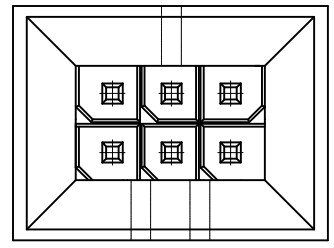
PART NUMBER AND DIMENSIONS:

PART NO.	POS	A	B	C
10138980-04XXXXLF	4	3.00	13.00	12.0
10138980-06XXXXLF	6	6.00	16.00	15.0
10138980-08XXXXLF	8	9.00	19.00	18.0
10138980-10XXXXLF	10	12.00	22.00	21.0
10138980-12XXXXLF	12	15.00	25.00	24.0
10138980-14XXXXLF	14	18.00	28.00	27.0
10138980-16XXXXLF	16	21.00	31.00	30.0
10138980-18XXXXLF	18	24.00	34.00	33.0
10138980-20XXXXLF	20	27.00	37.00	36.0
10138980-22XXXXLF	22	30.00	40.00	39.0
10138980-24XXXXLF	24	33.00	43.00	42.0

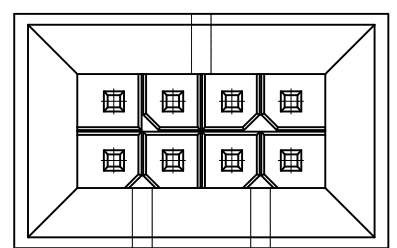
mat'l. code				surface ☒ ISO 1302		tolerance ☒ ISO 406 ☐ ISO 1101		projection		product family MINITEK PWR3.0						
ltr	ecn no	dr	date	tolerances unless otherwise specified						title						
				angles		linear		mm		DUAL ROW BMI VERTICAL MINITEK 3.0 HEADER						
				dr	KENNY TAI	2016-03-03		Amphenol FCi		dwg no		sheet 2 of 3		size		
				engr	AKHIL RAJAN	2022-01-21				10138980		A3				
				chr	MITHUN PAUL	2022-01-21				type		Product Customer Drawing				
				appd	SPK	2022-01-21										
sheet index		revision sheet		H	H	H										
				1	2	3										



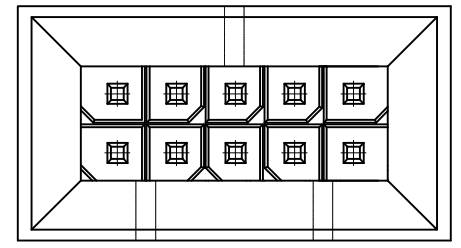
2*2P



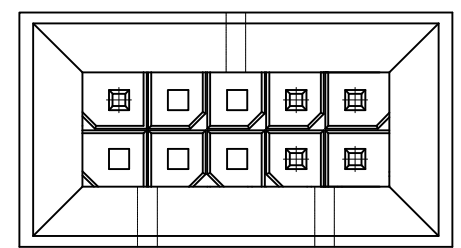
2*3P



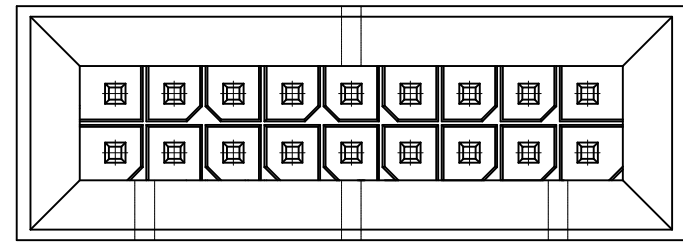
2*4P



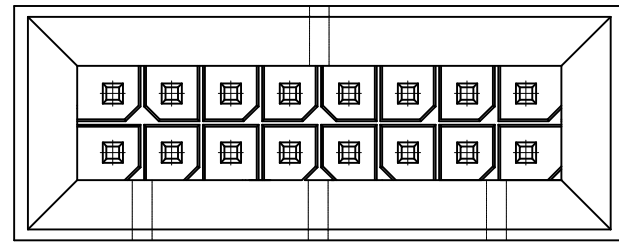
2*5P



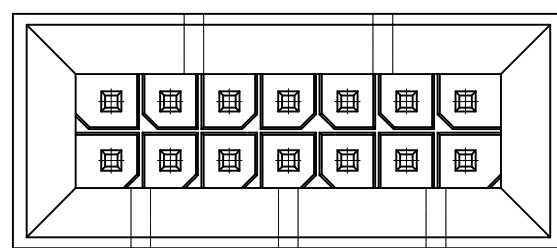
S2: CIRCUIT 3,4,5,8,9 REMOVED



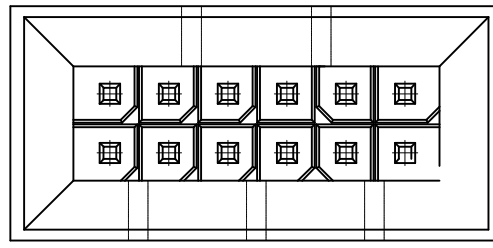
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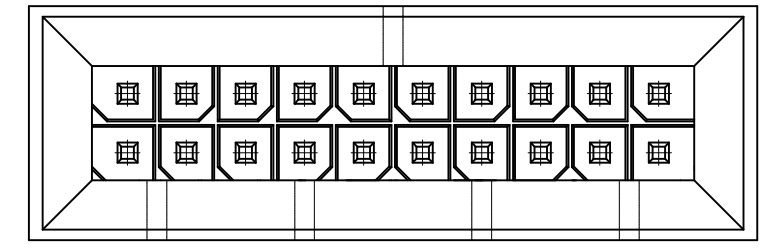
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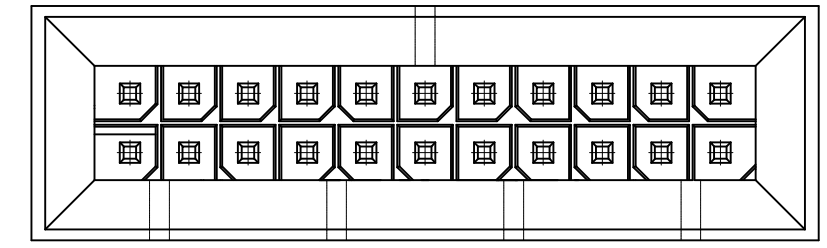
2*7P



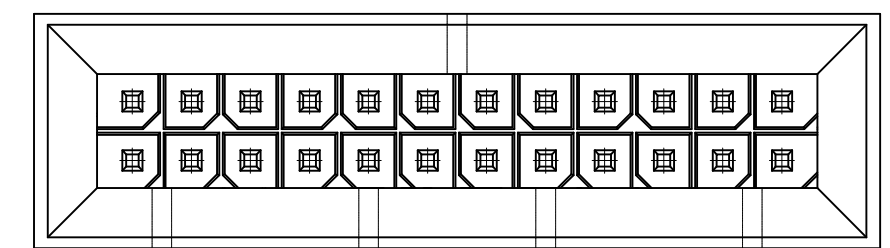
2*6P



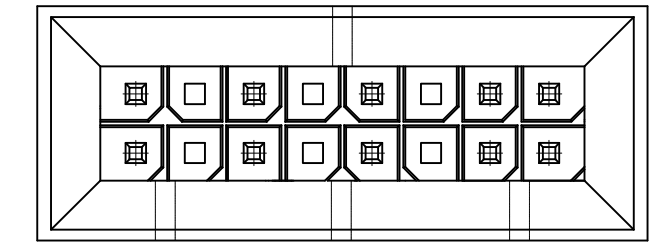
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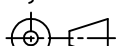
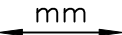
2*11P



2*12P



S1: CIRCUIT 3,5,7,11,13,15 REMOVED

mat'l. code				surface ISO 1302				tolerance ISO 406 ISO 1101				projection 				product family MINITEK PWR3.0											
ltr	ecn no		dr	date		tolerances unless otherwise specified				 scaleN.T.S				title DUAL ROW BMI VERTICAL MINITEK 3.0 HEADER													
						angles		linear																			
						.0±.30																					
						.00±.20																					
										.000±.10																	
						dr		KENNY TAI		2016-03-03						dwg no				sheet 3 of 3				size			
						engr		AKHIL RAJAN		2022-01-21						10138980				A3							
						chr		MITHUN PAUL		2022-01-21																	
						appd		SPK		2022-01-21																	
sheet index		revision sheet		H	H	H																					
				1	2	3																					

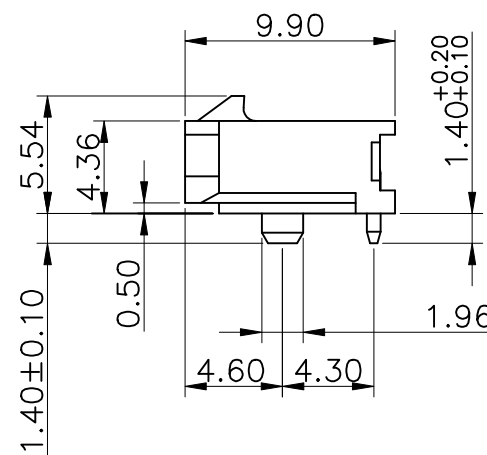
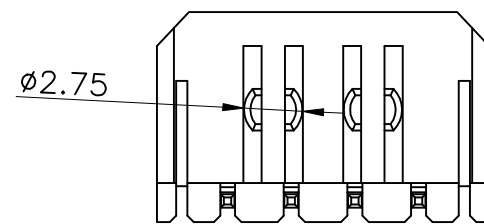
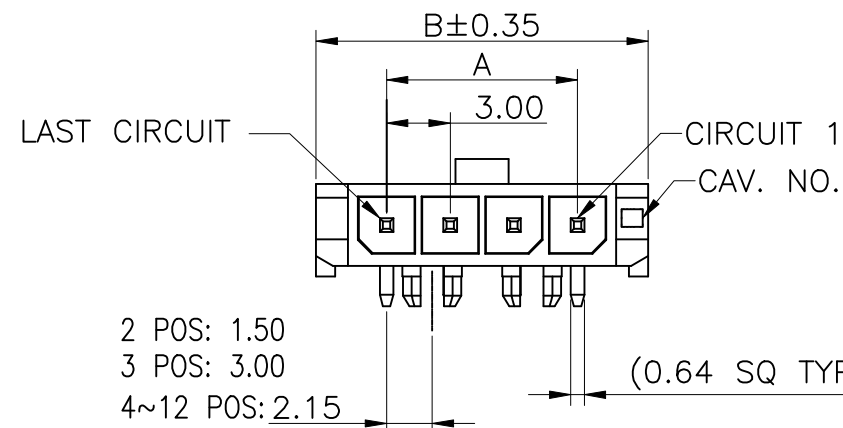
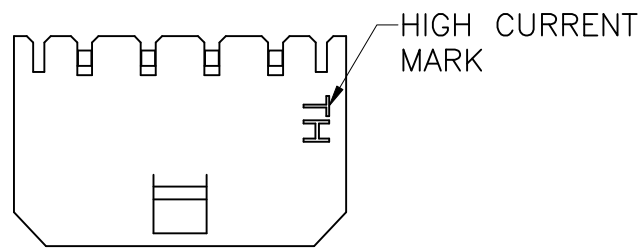


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Amphenol
FCI

PRODUCT NUMBER

SEE PART NO. TABLE

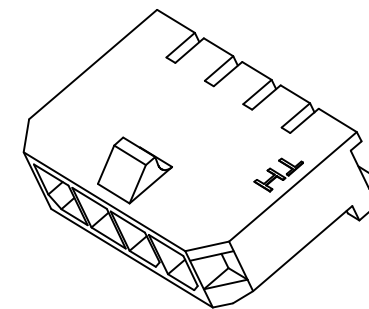
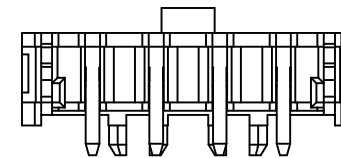


NOTE:

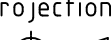
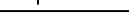
1. MATERIAL:
HOUSING: HIGH TEMP. NYLON, UL94V-0, HALOGEN FREE, COLOR: OPTIONAL
CONTACT: HIGH CONDUCTIVITY COPPER ALLOY.
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, 100u" MIN MATTE TIN ON SOLDER TAIL.
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
4. PRODUCT SPECIFICATION: GS-12-1291.
5. PACKAGE SPECIFICATION: GS-14-2419.
6. APPLICATION SPECIFICATION: GS-20-0399
7. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
8. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
9. PART NUMBER SCHEME:

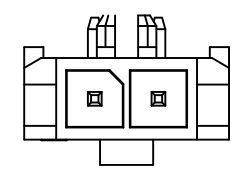
10142730- XX X X X X LF
POS CODE:
02: 2 POS
03: 3 POS
12: 12 POS
LEAD FREE
PACKAGE:
R: TAPE & REEL
HSG MATERIAL:
G: HIGH TEMP NYLON

PLATING CODE:
1: GOLD FLASH OVERALL
2: 100u" Min. MATTE TIN OVERALL
4: 30u" Min GOLD ON CONTACT AREA,
100u" Min MATTE TIN ON TAIL
HSG COLOR:
1: BLACK

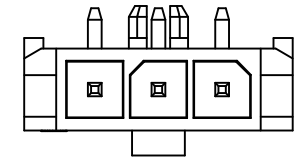


PART NUMBER	POS	A	B	COMMENT
10142730-02XXXXLF	2	--	9.65	
10142730-03XXXXLF	3	6.00	12.65	
10142730-04XXXXLF	4	9.00	15.65	
10142730-05XXXXLF	5	12.00	18.65	TOOLING ON REQUEST
10142730-06XXXXLF	6	15.00	21.65	
10142730-07XXXXLF	7	18.00	24.65	
10142730-08XXXXLF	8	21.00	27.65	
10142730-09XXXXLF	9	24.00	30.65	
10142730-10XXXXLF	10	27.00	33.65	
10142730-11XXXXLF	11	30.00	36.65	
10142730-12XXXXLF	12	33.00	39.65	

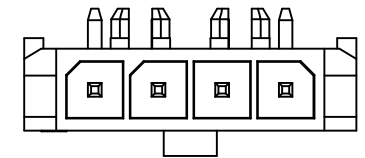
mat'l. code				surface ISO 1302 ✓			tolerance ISO 406 ISO 1101			projection 			product family MINITEK PWR 3.0 HCC											
ltr	ecn no	dr	date	tolerances unless otherwise specified						title														
A		TONNY	2017-02-13	angles		.0±0.35				RIGHT ANGLE PIP HEADER SINGLE ROW HIGH CURRENT WTB														
B	ELX-I-43460	AKHIL	2022-01-21			.00±0.25																		
				0°±5°			linear			scale N.T.S														
				dr	TONNY LENG		2017-02-13					dwg no						sheet 1 of 2			size			
				engr	AKHIL RAJAN		2022-01-21					10142730						A3						
				chr	MITHUN PAUL		2022-01-21																	
				appd	SPK		2022-01-21																	
sheet index		revision sheet		B	B																			
				1	2																			



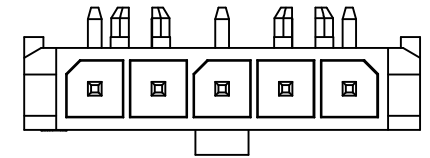
2 POS



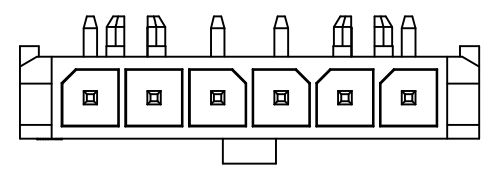
3 POS



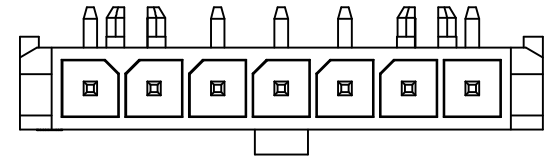
4 POS



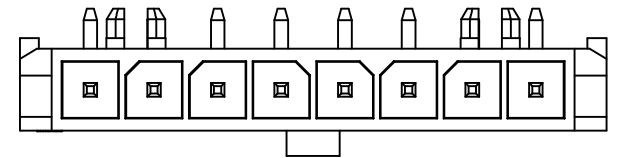
5 POS



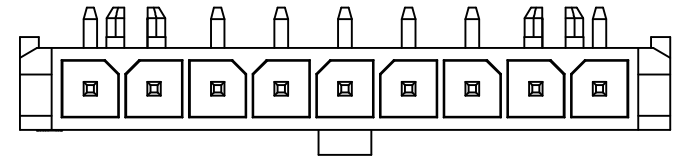
6 POS



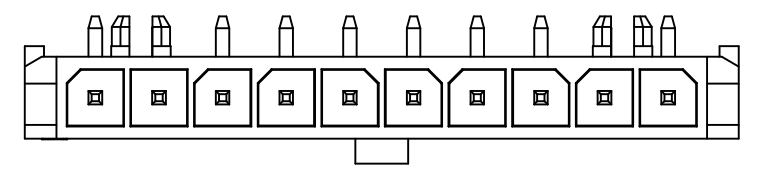
7 POS



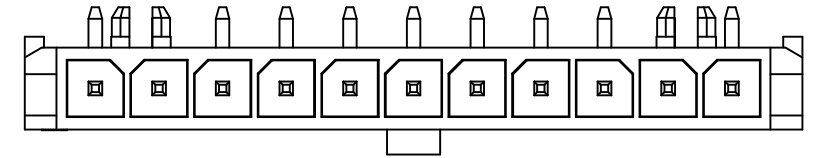
8 POS



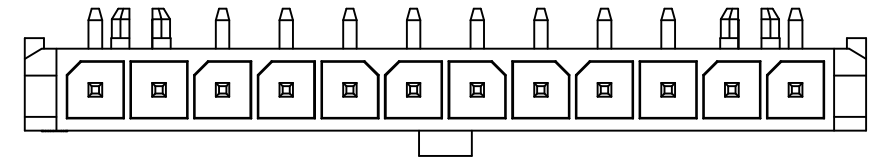
9 POS



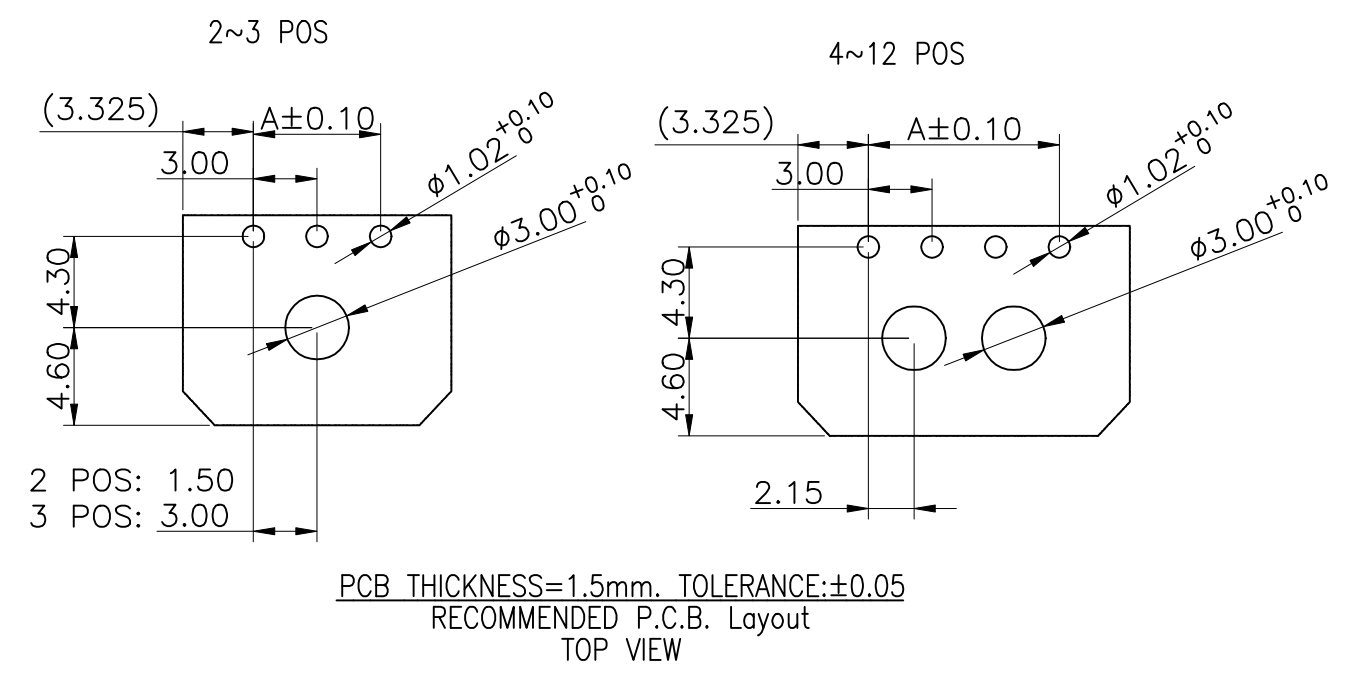
10 POS

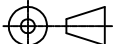


11 POS



12 POS

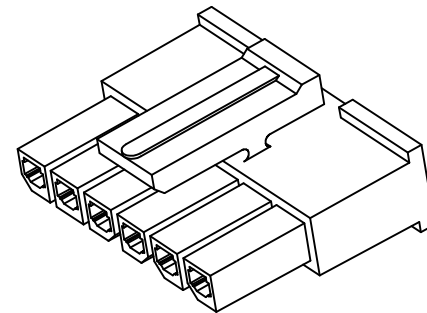
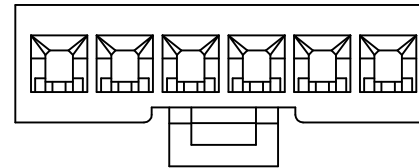
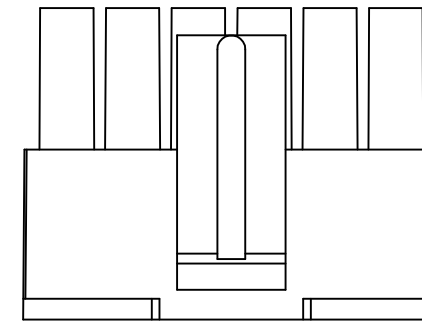
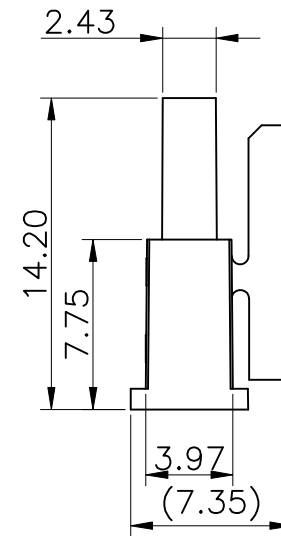
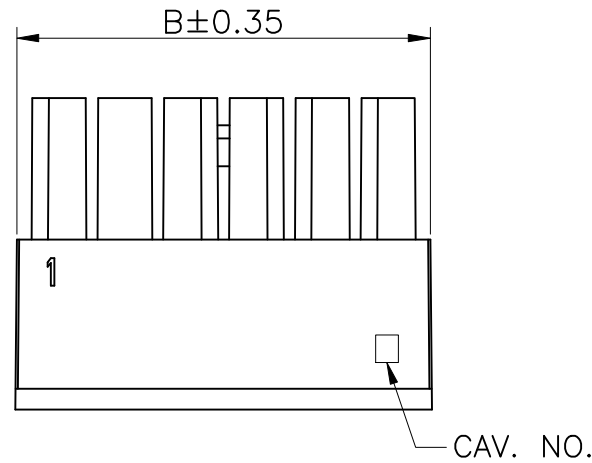
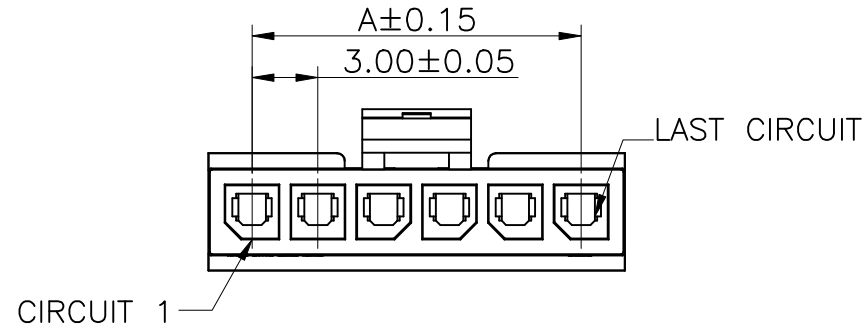


mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family MINITEK PWR 3.0 HCC															
ltr	ecn no	dr	date	tolerances unless otherwise specified						 mm		title RIGHT ANGLE PIP HEADER SINGLE ROW HIGH CURRENT WTB													
				angles		linear		.0±0.35				scale N.T.S													
								.00±0.25																	
				0°±5°																					
				dr	TONNY LENG		2017-02-13				dwg no						sheet 2 of 2				size				
				engr	AKHIL RAJAN		2022-01-21				10142730						A3								
				chr	MITHUN PAUL		2022-01-21																		
				appd	SPK		2022-01-21																		
sheet index		revision sheet		B	B																				
				1	2																				



PRODUCT NUMBER

SEE PART NO. TABLE



NOTE:

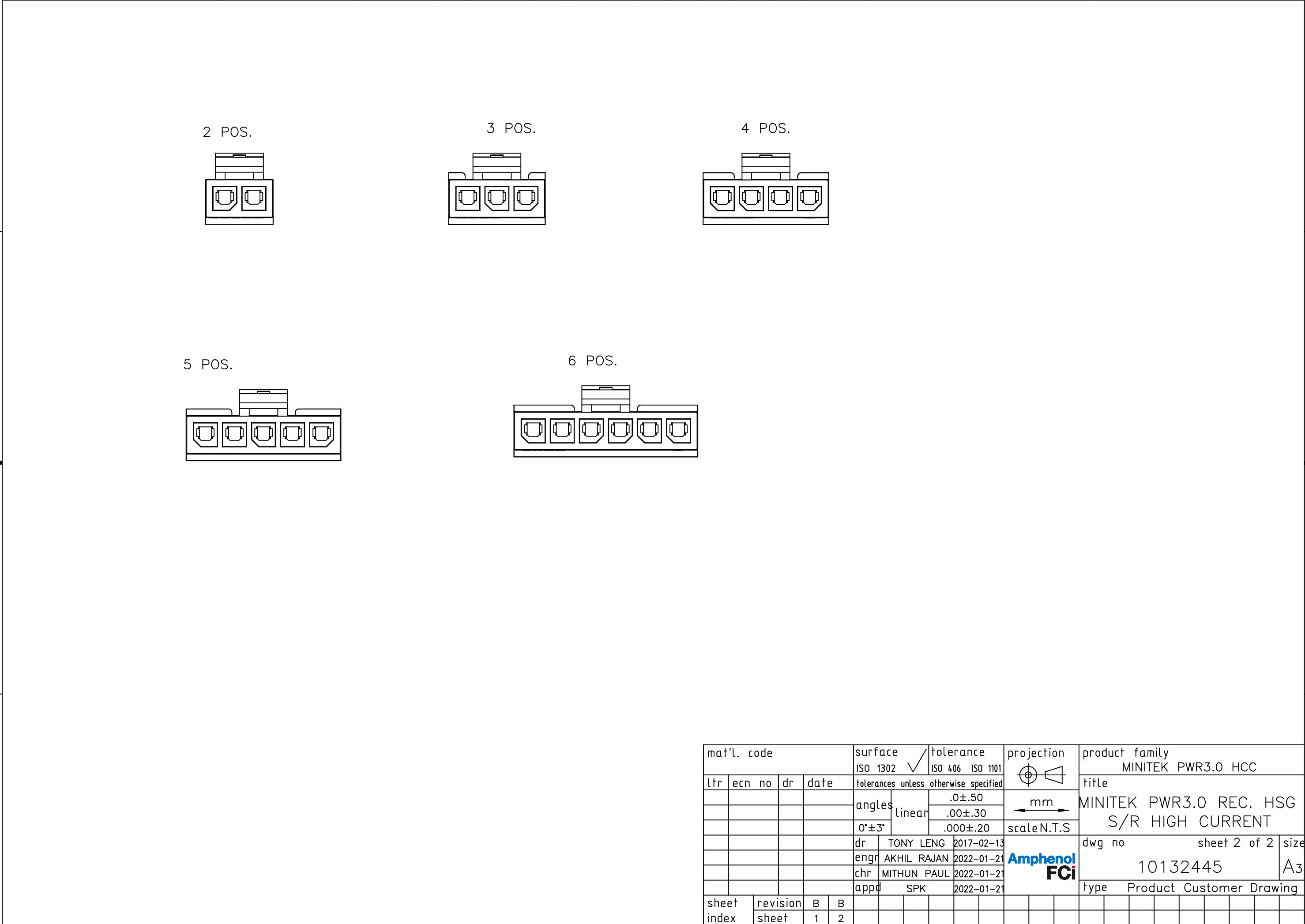
1. MATERIAL:
HOUSING: HIGH TEMP. NYLON, HALOGEN FREE
UL94V-0, COLOR: BLACK
2. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
3. PRODUCT SPECIFICATION: GS-12-1291.
4. PACKAGE SPECIFICATION: GS-14-2419 (BULK PACKED)
5. APPLICATION SPECIFICATION: GS-20-0399.
6. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
7. PART NUMBER SCHEME:
10142744- XX LF

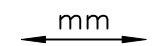
POS. CODE: LEAD FREE
02: 2 POS.
03: 3 POS.
06: 6 POS.

DIMENSIONAL & PART NO. TABLE:

PART NO.	POS	A	B
10142744-02LF	2	6.85	6.85
10142744-03LF	3	6.0	9.85
10142744-04LF	4	9.0	12.85
10142744-05LF	5	12.0	15.85
10142744-06LF	6	15.0	18.85

mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection mm	product family MINITEK PWR3.0 HCC											
ltr	ecn no	dr	date	tolerances unless otherwise specified		mm	title											
A		TONY	2017-02-13	angles	linear		MINITEK PWR3.0 REC. HSG											
B	ELX-I-43460	AKHIL	2022-01-21	0°±3°		scale	S/R HIGH CURRENT											
				dr	TONY LENG	2017-02-13	dwg no											
				engr	AKHIL RAJAN	2022-01-21	sheet 1 of 2											
				chr	MITHUN PAUL	2022-01-21	size											
				appd	SPK	2022-01-21	A3											
sheet index		revision sheet	B 1	B 2														



mat'l. code				surface ISO 1302		tolerance ISO 406 ISO 1101		projection 		product family MINITEK PWR3.0 HCC									
ltr	ecn no	dr	date	tolerances unless		otherwise specified				title MINITEK PWR3.0 REC. HSG S/R HIGH CURRENT									
				angles	linear	.0±.50		mm											
						.00±.30													
				0°±3°		.000±.20		scale N.T.S											
				dr	TONY LENG		2017-02-13												
				engr	AKHIL RAJAN		2022-01-21												
				chr	MITHUN PAUL		2022-01-21												
				appd	SPK		2022-01-21												
sheet index		revision sheet		B	B					dwg no									
				1	2					sheet 2 of 2									
										10132445									
										size A3									
										type Product Customer Drawing									

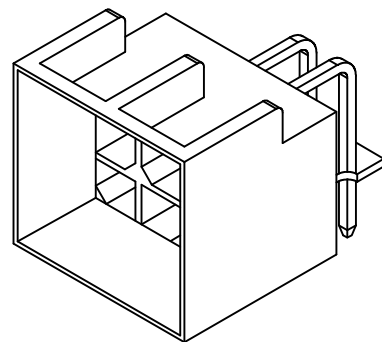
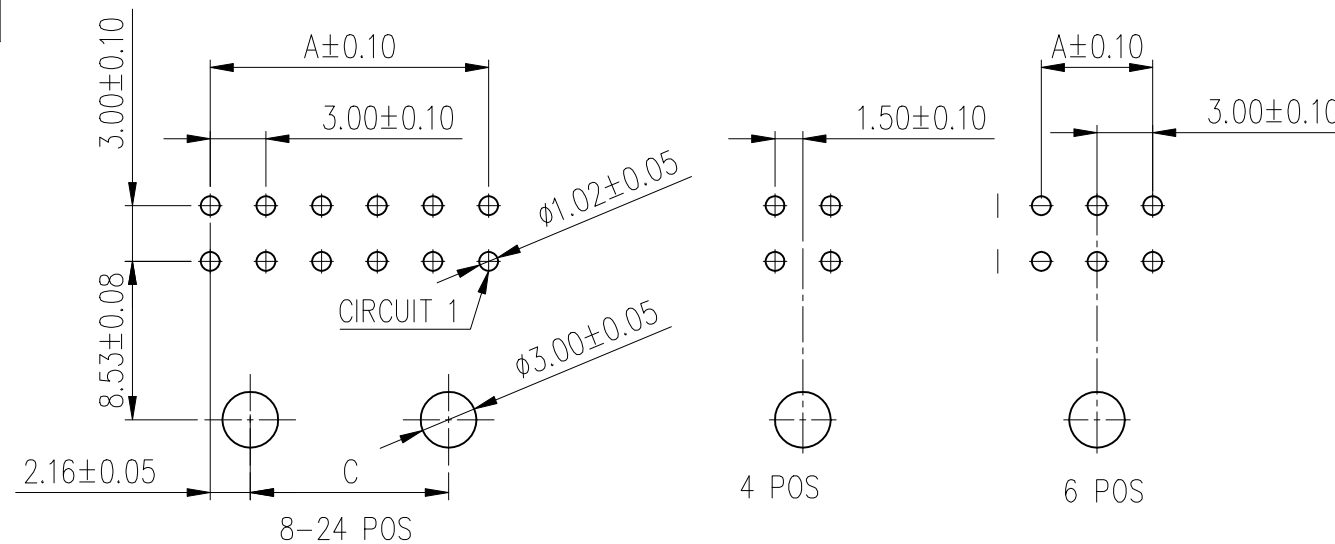
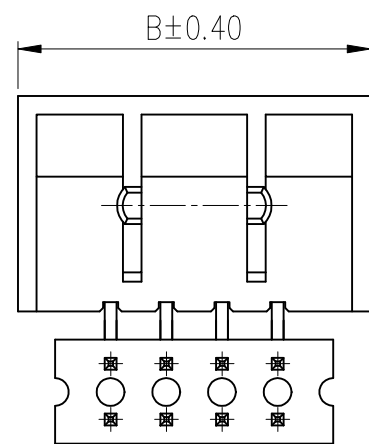
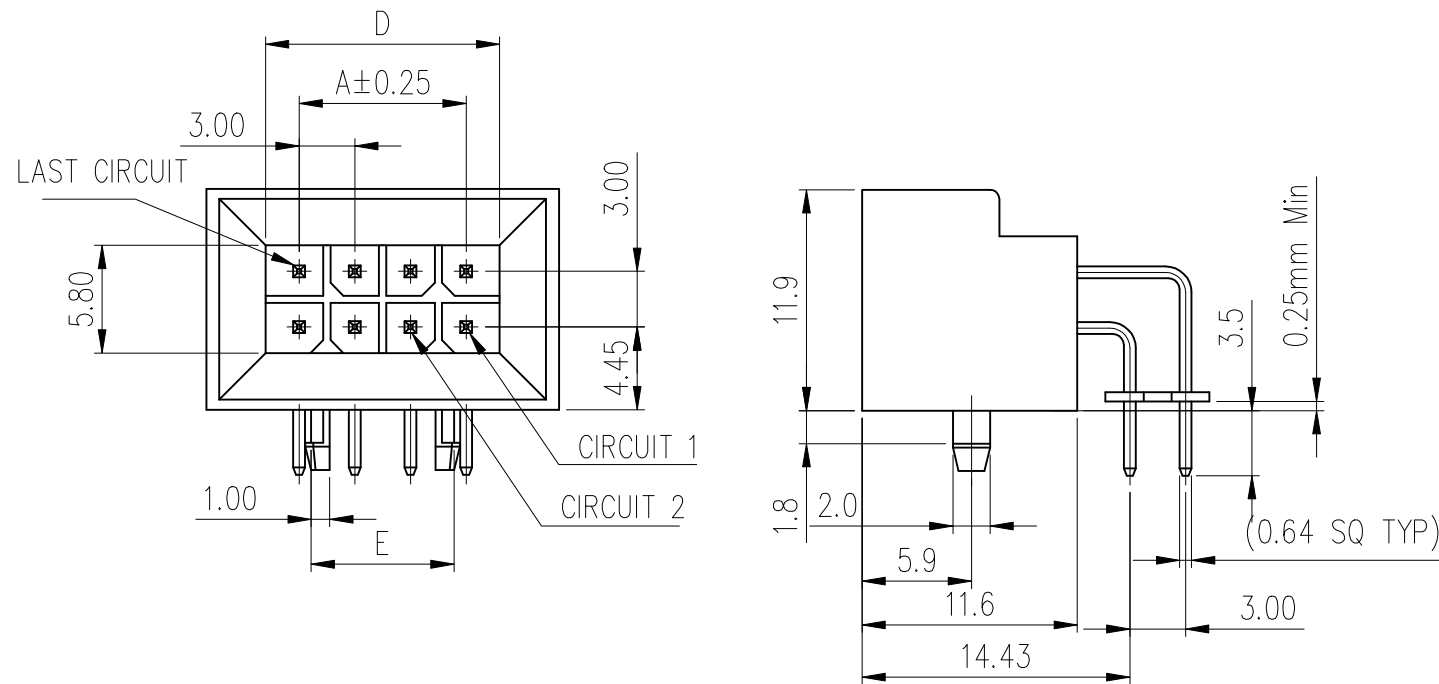


A

B

C

D



RECOMMENDED PCB LAYOUT
GENERAL TOLERANCE: ±0.05
PCB THICKNESS=1.60MM

NOTE:

1. MATERIAL:
HOUSING: LCP, UL94V-0, HALOGEN FREE, COLOR: BLACK
CONTACT: COPPER ALLOY.
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, TIN ON SOLDER TAIL.
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR .
4. PRODUCT SPECIFICATION: GS-12-1177.
5. PACKAGE SPECIFICATION: GS-14-2359 (TRAY) / GS-14-2666 (FOR TAPE & REEL)
6. APPLICATION SPECIFICATION: GS-20-0399
7. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
8. THE HOUSING WILL WITHSTAND EXPOSURE TO 235°C PEAK TEMPERATURE FOR 5 SECONDS IN A WAVE SOLDER
9. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES
AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
10. PART NUMBER SCHEME:
10144754- XX X X X X LF
POS. CODE:
04: 4 POS
06: 6 POS
S
24: 24 POS
LEAD FREE
OPTIONAL PACKAEGS:
BLANK: TRAY WITH STANDARD ALIGNER (WHITE COLOR)
K: TAPE/REEL PACKAGE WITH HIGH TEMP. KAPTON TAPE AND
ALIGNER (BROWN COLOR) (ONLY FOR 4,8& 12POS)
T: TAPE/REEL PACKAGE WITH
HIGH TEMP. ALIGNER (BROWN COLOR) (ONLY FOR 12POS)
PEG OPTION
BLANK: WITH PEG
B: WITHOUT PEG
GLOW WIRE COMPATIBLE:
1: COMPATIBLE

P/N AND DIMENSIONS:

PART NUMBER	POS	A	B	C	D	E
10144754-04XXXXLF	4	3.00	13.00	NA	6.60	3.00
10144754-06XXXXLF	6	6.00	16.00	NA	9.60	3.00
10144754-08XXXXLF	8	9.00	19.00	4.68	12.60	7.70
10144754-10XXXXLF	10	12.00	22.00	7.68	15.60	10.70
10144754-12XXXXLF	12	15.00	25.00	10.68	18.60	13.70
10144754-14XXXXLF	14	18.00	28.00	13.68	21.60	16.70
10144754-16XXXXLF	16	21.00	31.00	16.68	24.60	19.70
10144754-18XXXXLF	18	24.00	34.00	19.68	27.60	22.70
10144754-20XXXXLF	20	27.00	37.00	22.68	30.60	25.70
10144754-22XXXXLF	22	30.00	40.00	25.68	33.60	28.70
10144754-24XXXXLF	24	33.00	43.00	28.68	36.60	31.70

mat'l. code				surface		tolerance		projection	product family			
				ISO 1302	ISO 406	ISO 1101	ISO 1101		MINITEK PWR3.0			
ltr	ecn no	dr	date	tolerances unless otherwise specified				mm	title			
A	-	TONY	2018-09-19									
B	ELX-I-43451	ASLAM	2021-12-29	angles				scale	BMI RIGHT ANGLE HEADER DUAL ROW, MTK3.0 STD			
C	ELX-I-43460	AKHIL	2022-01-21	0°±2°								
				dr	TONY LENG	2018-09-19		Amphenol FCi	dwg no			
				engr	AKHIL RAJAN	2022-01-21						
				chr	MITHUN PAUL	2022-01-21						
				appd	SPK	2022-01-21						
sheet index		revision sheet	C	C	C							
			1	2	3							



A

B

C

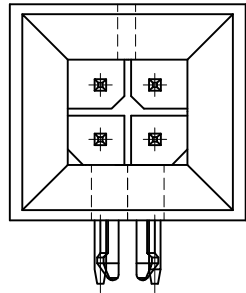
D

A

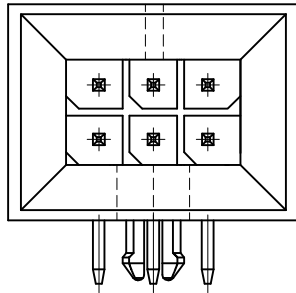
B

C

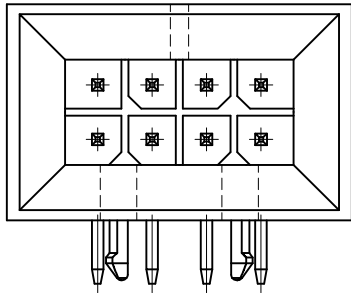
D



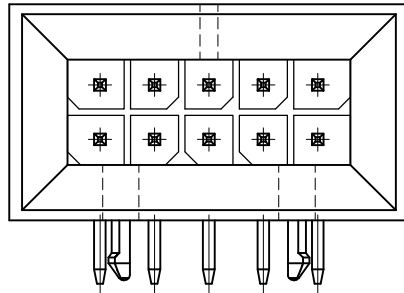
4 POS



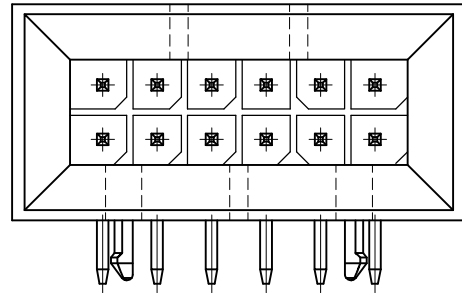
6 POS



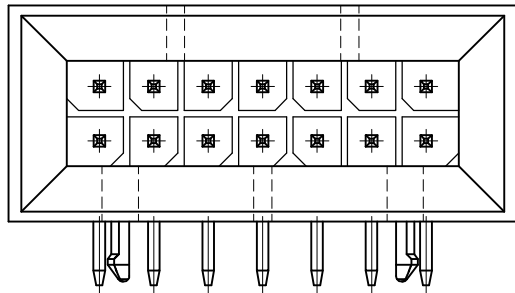
8 POS



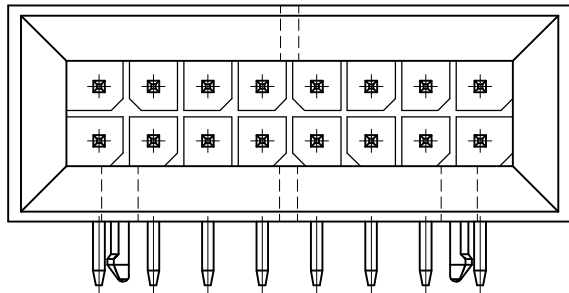
10 POS



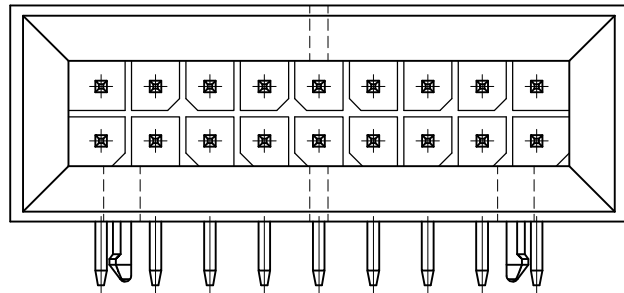
12 POS



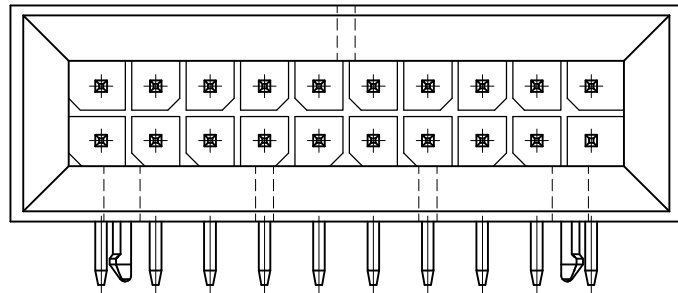
14 POS



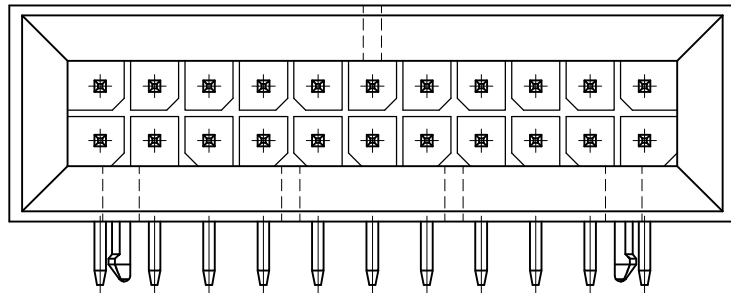
16 POS



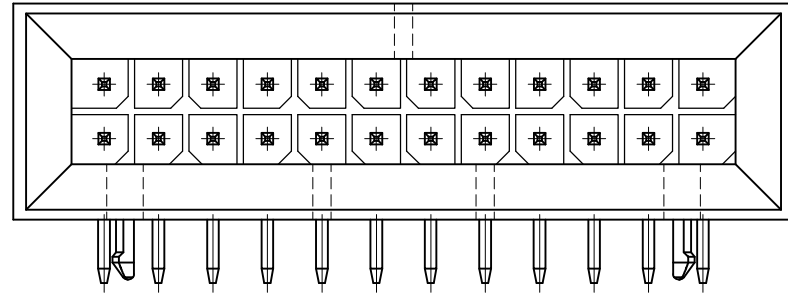
18 POS



20 POS



22 POS



24 POS

mat'l. code				surface		tolerance		projection		product family																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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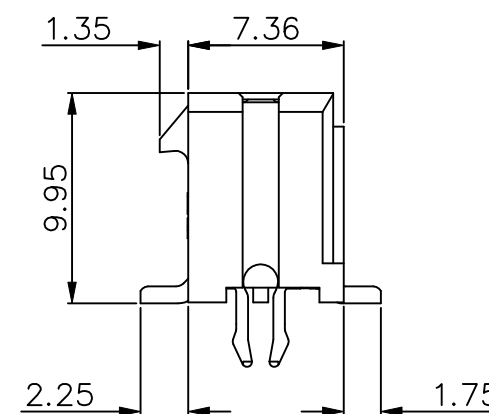
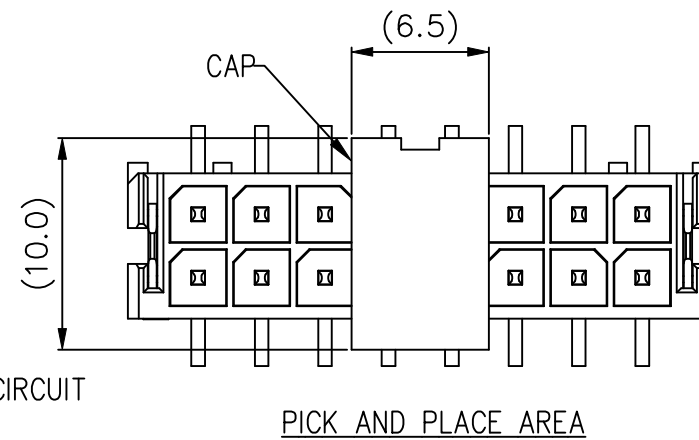
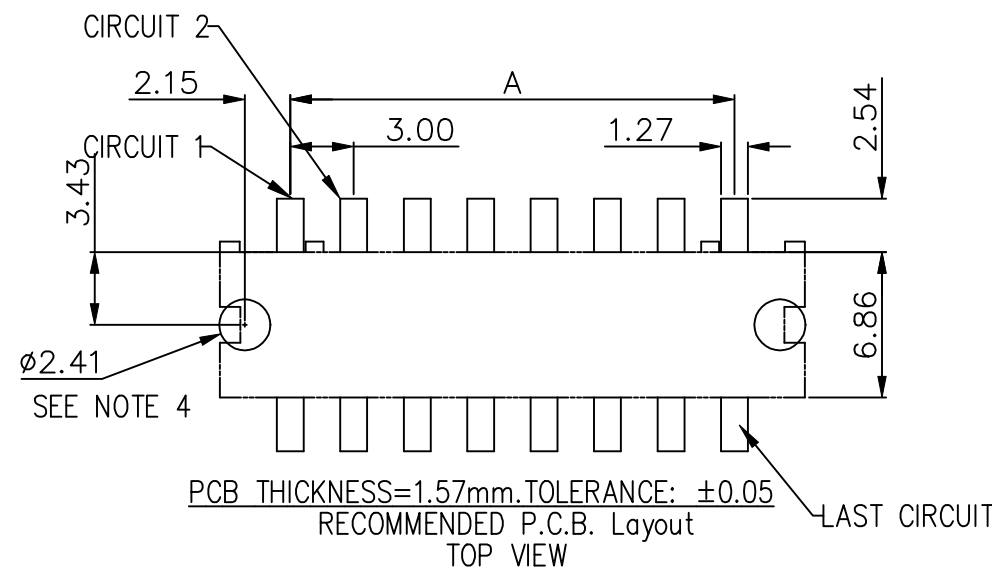
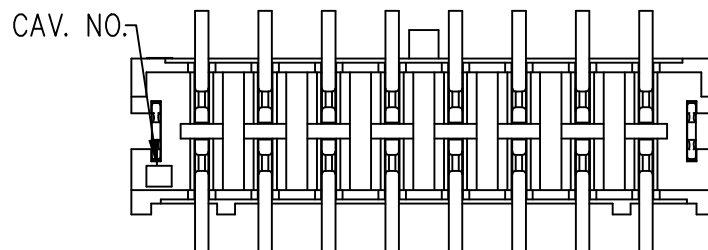
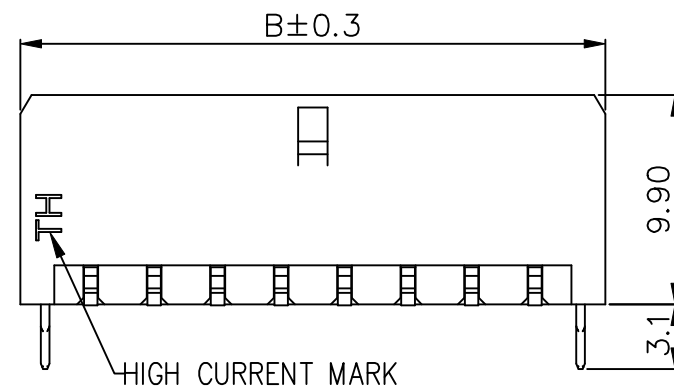
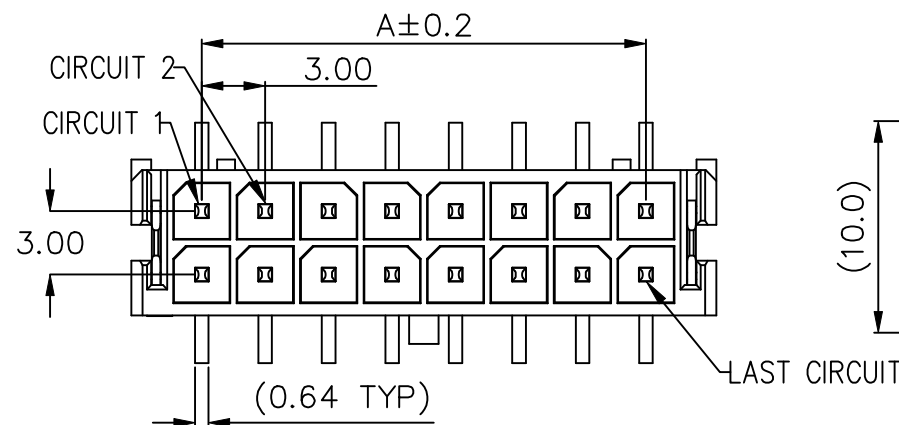
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NOTE:

1. MATERIAL:
HOUSING: HIGH TEMP. NYLON, UL94V-0, HALOGEN FREE, COLOR: OPTIONAL
CONTACT: HIGH CONDUCTIVITY COPPER ALLOY.
METAL HARPOON: BRASS
2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA, 100u" MIN MATTE TIN ON SOLDER TAIL.
METAL HARPOON FINISH: 60u" MIN MATTE TIN OVER 50u" Min. NICKEL
3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
4. TO MINIMIZE THE INSERTION FORCE OF MOUNTING CLIP DURING ROBOTIC
PLACEMENT THE PCB HOLE DIAMETER SHOULD BE INCREASED TO 2.74 ± 0.05 mm
5. PRODUCT SPECIFICATION: GS-12-1291.
6. PACKAGE SPECIFICATION: GS-14-2419.
7. APPLICATION SPECIFICATION: GS-20-0399
8. THE HOUSING WILL WITHSTAND EXPOSURE TO
260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
9. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES
AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
10. PART NUMBER SCHEME:

10148439- XX X X X X 0 LF

```

POS. CODE:-
02: 2 POS
04: 4 POS
    }
24: 24 POS

```

— LEAD FREE

— PACKAGE:
R: TAPE & REEL WITH PICKUP CAP

—HSG MATERIAL:
G: HIGH TEMP. NYLON (GLOW
WIRE COMPATIBLE)

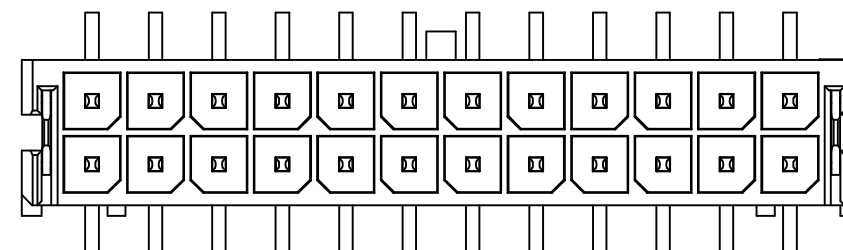
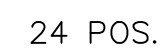
—HSG COLOR:
1: BLACK

—PLATING CODE:
1: GOLD FLASH ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL
2:100u" Min. MATTE TIN OVERALL

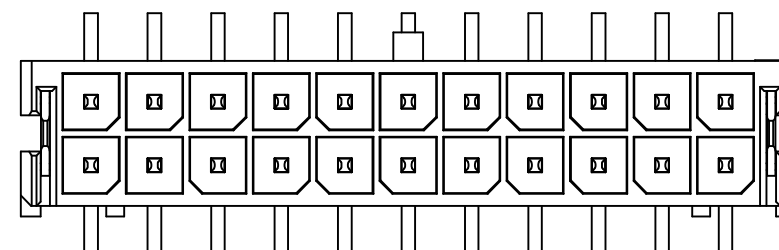
P/N & DIMENSION TABLE:

PART NO.	POS	A	B	COMMENT
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10148439-04XXXXOLF	4	3.00	9.65	TOOLING ON REQUEST
10148439-06XXXXOLF	6	6.00	12.65	TOOLING ON REQUEST
10148439-08XXXXOLF	8	9.00	15.65	
10148439-10XXXXOLF	10	12.00	18.65	
10148439-12XXXXOLF	12	15.00	21.65	
10148439-14XXXXOLF	14	18.00	24.65	TOOLING ON REQUEST
10148439-16XXXXOLF	16	21.00	27.65	TOOLING ON REQUEST
10148439-18XXXXOLF	18	24.00	30.65	TOOLING ON REQUEST
10148439-20XXXXOLF	20	27.00	33.65	
10148439-22XXXXOLF	22	30.00	36.65	TOOLING ON REQUEST
10148439-24XXXXOLF	24	33.00	39.65	

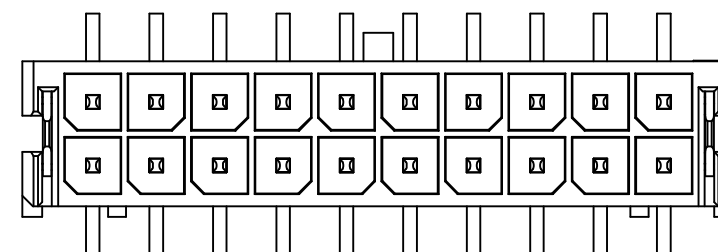
mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family MINITEK PWR3.0 HCC											
ltr	ecn no	dr	date	tolerances unless otherwise specified						title DUAL ROW V/T SMT HEADER MINITEK 3.0 HIGH CURRENT											
A		TONY	2018-06-01	angles	linear	.0±.35		scale N.T.S.		dwg no sheet 1 of 2 size A3											
B	ELX-I-43589	AKHIL	2022-01-21			.00±.25															
				0°±3°																	
				dr	TONY LENG	2018-06-01			type Product Customer Drawing												
				engr	AKHIL RAJAN	2022-01-21															
				chr	MITHUN PAUL	2022-01-21															
				appd	SPK	2022-01-21															
sheet index		revision sheet		B	B																
				1	2																

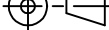
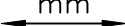


22 POS.



20 POS.



mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family MINITEK PWR3.0 HCC									
ltr	ecn no	dr	date	tolerances unless otherwise specified				 mm		title DUAL ROW V/T SMT HEADER MINITEK 3.0 HIGH CURRENT									
				angles linear		.0±.35													
				0°±3'		.00±.25		scale N.T.S.											
				dr	TONY LENG	2018-06-01													
				engr	AKHIL RAJAN	2022-01-21													
				chr	MITHUN PAUL	2022-01-21													
				appd	SPK	2022-01-21		dwg no		sheet 2 of 2				size A3					
sheet index		revision sheet		B 1	B 2					type		Product Customer Drawing							

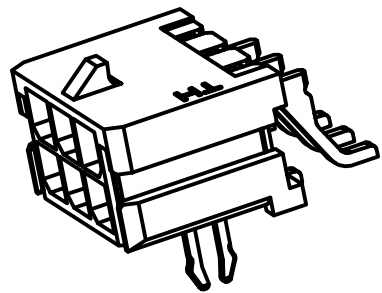
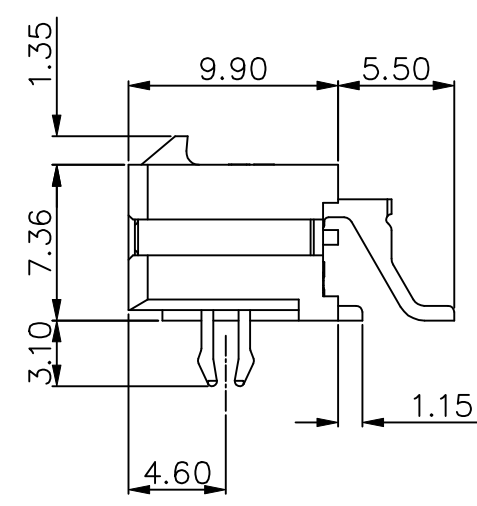
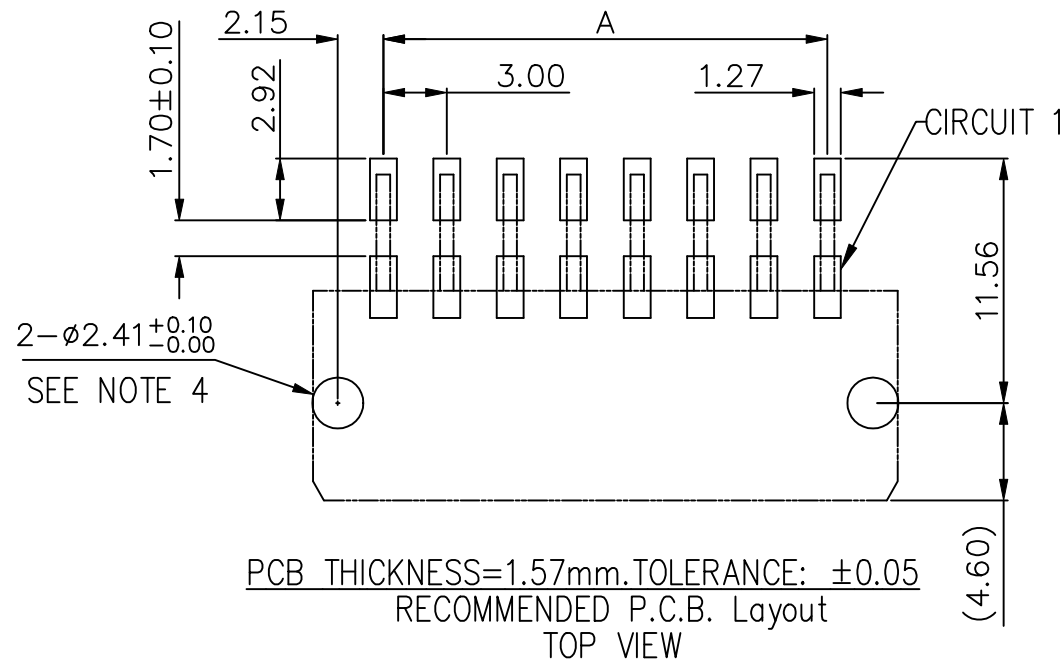
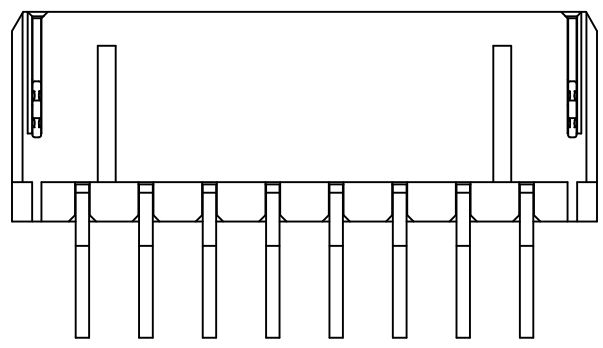
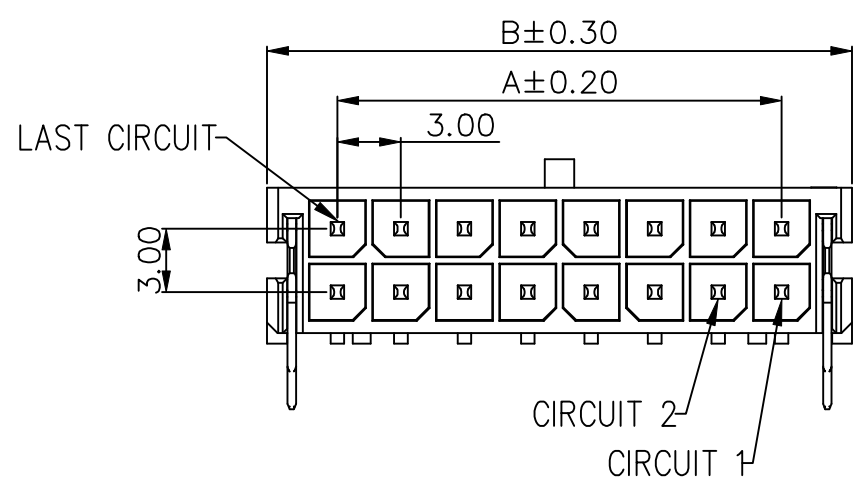
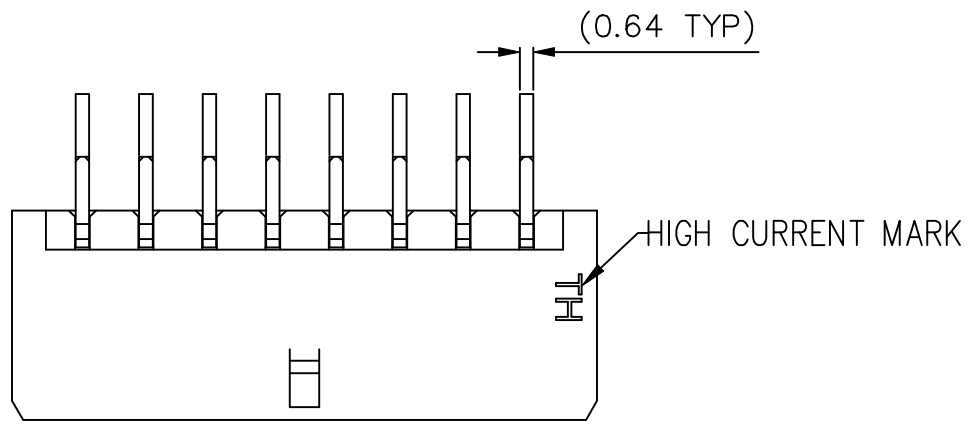


A

B

C

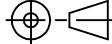
D

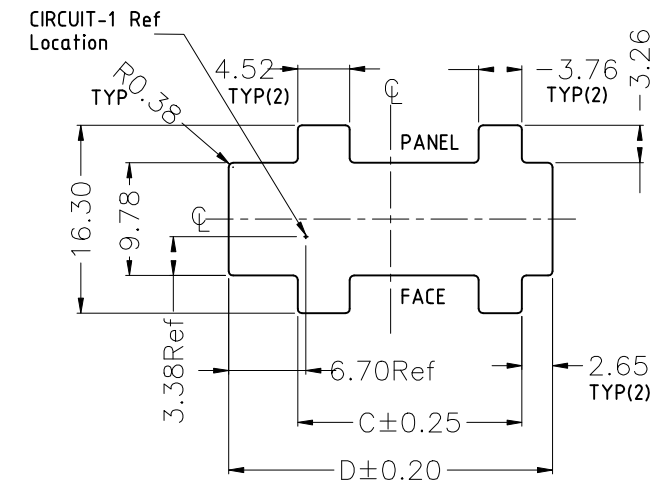
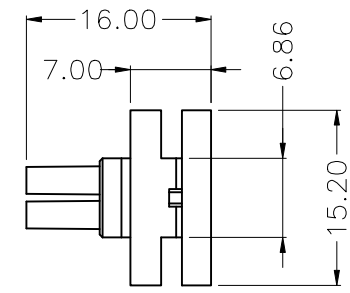
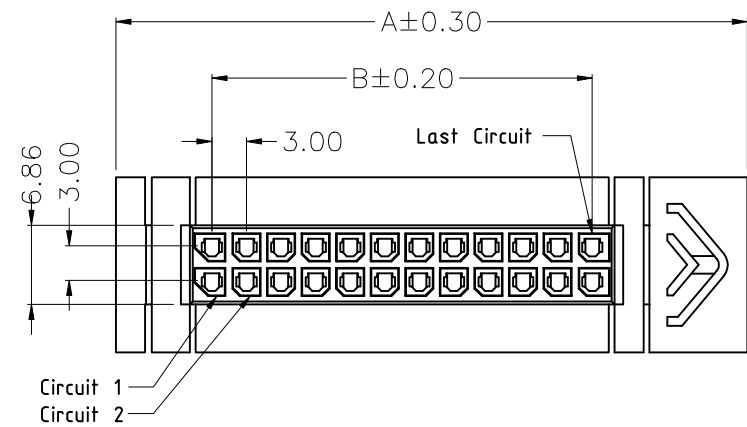
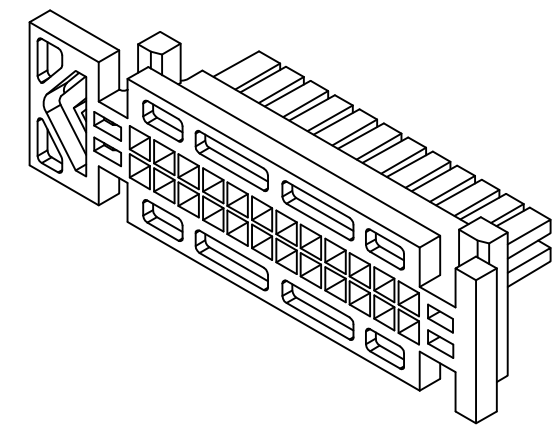
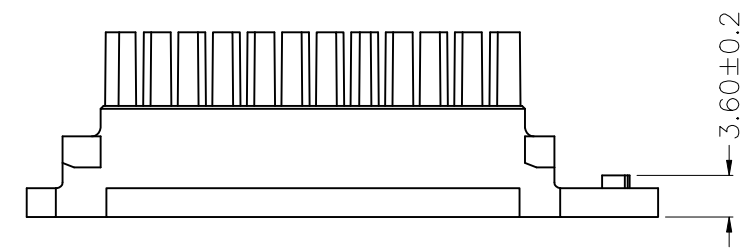


- NOTE:
1. MATERIAL:
HOUSING: HIGH TEMP. NYLON, UL94V-0, HALOGEN FREE, COLOR: OPTIONAL
CONTACT: HIGH CONDUCTIVITY COPPER ALLOY.
METAL HARPOON: BRASS
 2. CONTACT FINISH: NICKEL 50u" Min. UNDERPLATED OVERALL.
OPTIONAL PLATING ON CONTACT AREA,100u" MIN MATTE TIN ON SOLDER TAIL.
METAL HARPOON FINISH: 60u" MIN MATTE TIN OVER 50u" Min. NICKEL
 3. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
 4. TO MINIMIZE THE INSERTION FORCE OF MOUNTING CLIP DURING ROBOTIC
PLACEMENT THE PCB HOLE DIAMETER SHOULD BE INCREASED TO 2.74±0.05mm
 5. PRODUCT SPECIFICATION: GS-12-1291.
 6. PACKAGE SPECIFICATION: GS-14-2419.
 7. APPLICATION SPECIFICATION: GS-20-0399
 8. THE HOUSING WILL WITHSTAND EXPOSURE TO
260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW OVEN.
 9. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES
AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
 10. PART NUMBER SCHEME:
10148440- XX X X X X 0 LF
LEAD FREE
- POS. CODE:
02: 2 POS
04: 4 POS
5
24: 24 POS
- PACKAGE:
R: TAPE & REEL
- HSG MATERIAL:
G: HIGH TEMP. NYLON (GLOW
WIRE COMPATIBLE)
- HSG COLOR:
1: BLACK
- PLATING CODE:
1: GOLD FLASH ON CONTACT AREA,
100u"Min MATTE TIN ON TAIL
2:100u" Min. MATTE TIN OVERALL

P/N & DIMENSION TABLE:

PART NO.	POS	A	B	COMMENT
10148440-02XXXX0LF	2	--	6.65	TOOLING ON REQUEST
10148440-04XXXX0LF	4	3.00	9.65	TOOLING ON REQUEST
10148440-06XXXX0LF	6	6.00	12.65	TOOLING ON REQUEST
10148440-08XXXX0LF	8	9.00	15.65	
10148440-10XXXX0LF	10	12.00	18.65	
10148440-12XXXX0LF	12	15.00	21.65	TOOLING ON REQUEST
10148440-14XXXX0LF	14	18.00	24.65	TOOLING ON REQUEST
10148440-16XXXX0LF	16	21.00	27.65	TOOLING ON REQUEST
10148440-18XXXX0LF	18	24.00	30.65	TOOLING ON REQUEST
10148440-20XXXX0LF	20	27.00	33.65	
10148440-22XXXX0LF	22	30.00	36.65	TOOLING ON REQUEST
10148440-24XXXX0LF	24	33.00	39.65	

mat'l. code				surface ISO 1302 ✓			tolerance ISO 406 ISO 1101			projection 			product family MINITEK PWR3.0 HCC													
ltr	ecn no		dr	date		tolerances unless otherwise specified									title											
A			TONY	2018-06-01		angles	linear	.0±.35						DUAL ROW R/A SMT HEADER MINITEK 3.0 HIGH CURRENT												
B	ELX-I-43588		AKHIL	2022-01-21				.00±.25																		
						0°±3°					scale N.T.S															
						dr	TONY LENG			2018-06-01																
						engr	AKHIL RAJAN			2022-01-21																
						chr	MITHUN PAUL			2022-01-21																
						appd	SPK			2022-01-21																
sheet index		revision sheet		B	B								dwg no sheet 1 of 2 size 10148440 A3													
				1	2								type Product Customer Drawing													

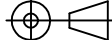
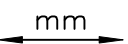


RECOMMENDED PANEL CUT-OUT
THICK:1.27mmMin/1.57mmMax
General Tolerance±0.05

NOTE:

1. MATERIAL:
HOUSING: NYLON 66,HALOGEN FREE
UL94V-0, COLOR: BLACK
2. REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
3. PRODUCT SPECIFICATION: GS-12-1177.
4. PACKAGE SPECIFICATION: GS-14-2359 (BULK PACKED)
5. APPLICATION SPECIFICATION: GS-20-0399.
6. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
7. PART NUMBER SCHEME:
10159684- XX X LF
POS. CODE: 04: 4 POS.
06: 6 POS.
24: 24 POS.
LEAD FREE
GLOW WIRE COMPATIBLE:
G: COMPATIBLE

PART NUMBER	POS	Dimensions(mm)			
		A	B	C	D
10159684-04XLF	4	24.6	3.00	13.46	22.10
10159684-06XLF	6	27.7	6.00	16.46	25.10
10159684-08XLF	8	30.7	9.00	19.46	28.10
10159684-10XLF	10	33.8	12.00	22.46	31.10
10159684-12XLF	12	36.8	15.00	25.46	34.10
10159684-14XLF	14	39.8	18.00	28.46	37.10
10159684-16XLF	16	42.8	21.00	31.46	40.10
10159684-18XLF	18	45.8	24.00	34.46	43.10
10159684-20XLF	20	48.8	27.00	37.46	46.10
10159684-22XLF	22	51.8	30.00	40.46	49.10
10159684-24XLF	24	54.8	33.00	43.46	52.10

mat'l. code				surface ISO 1302 ✓				tolerance ISO 406 ISO 1101				projection 				product family MINITEK PWR 3.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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A

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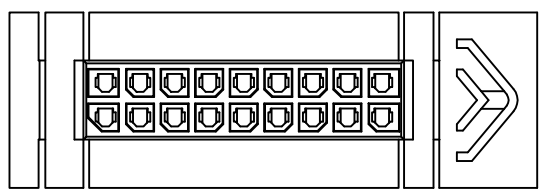
D

A

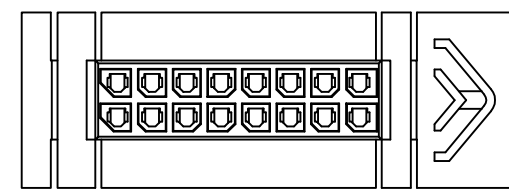
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C

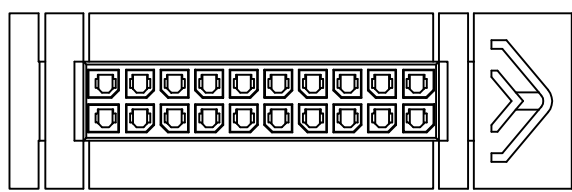
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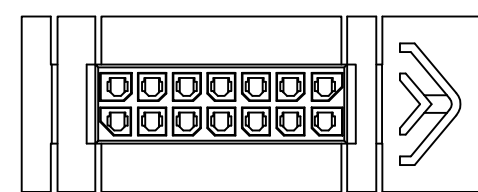
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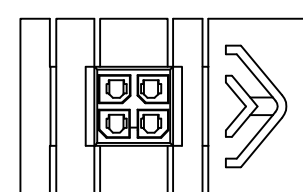
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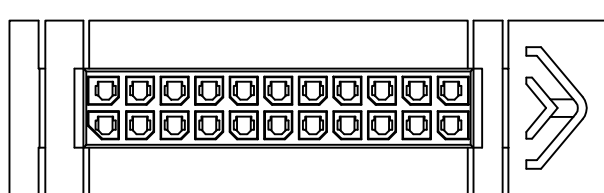
20POS



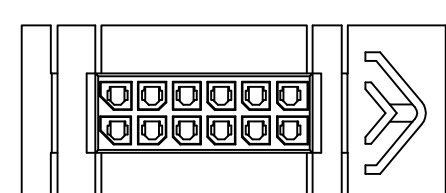
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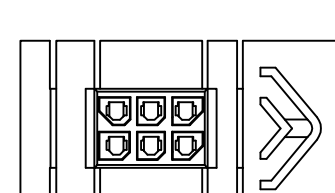
4POS



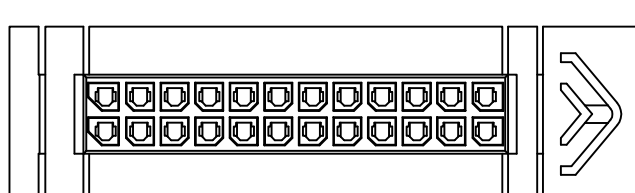
22POS



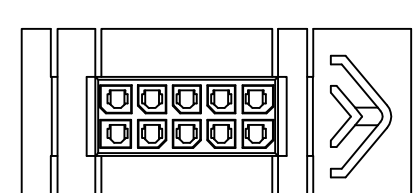
12POS



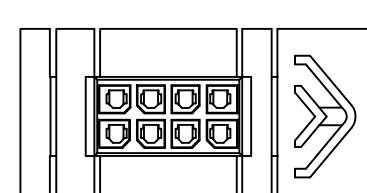
6POS



24POS



10POS



8POS

mat'l. code				surface ISO 1302		tolerance ISO 406 ISO 1101		projection 		product family MINITEK PWR 3.0										
ltr	ecn no	dr	date	tolerances unless		otherwise specified		 mm scale N.T.S		title DUAL ROW BMI REC HOUSING MINITEK POWER 3.0										
				angles	linear	.0±.35														
						.00±.25														
				0°±x°		.000±.15														
				dr	JILTO JOHNSON		2020-08-14				dwg no 10159684 sheet 2 of 2 size A3									
				engr	AKHIL RAJAN		2022-01-21													
				chr	MITHUN PAUL		2022-01-21													
				appd	SPK		2022-01-21													
sheet index		revision sheet		B	B															
				1	2															

1

2

3

4

5

6

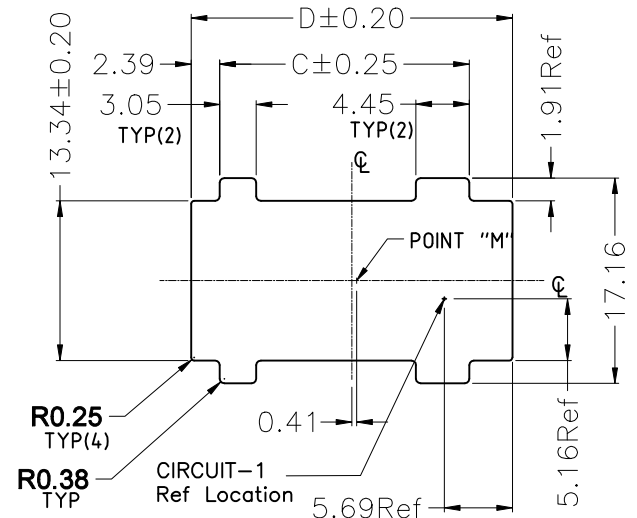
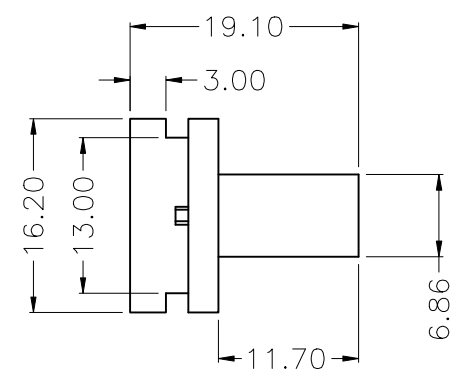
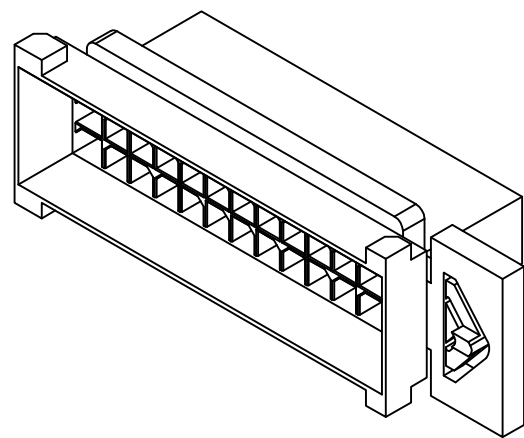
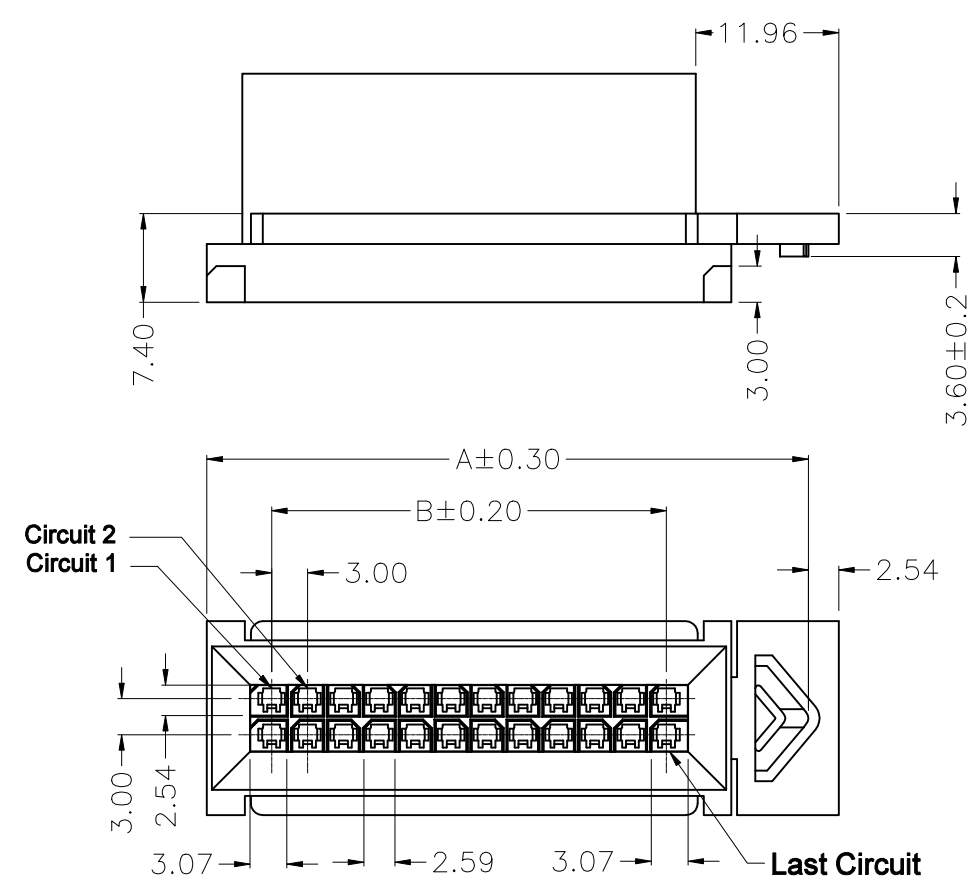


A

B

C

D



RECOMMENDED PANEL CUT-OUT
THICK:1.27mmMin/1.57mmMax
General Tolerance±0.05

- NOTE:
- MATERIAL:
HOUSING: NYLON 66,HALOGEN FREE
UL94V-0, COLOR: BLACK
 - REFER GS-20-0399 APPLICATION SPECIFICATION FOR MATING CONNECTOR.
 - PRODUCT SPECIFICATION: GS-12-1177.
 - PACKAGE SPECIFICATION: GS-14-2359 (BULK PACKED)
 - APPLICATION SPECIFICATION: GS-20-0399.
 - LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004
 - PART NUMBER SCHEME:
10160855- XX X LF
POS. CODE: 04: 4 POS.
06: 6 POS.
24: 24 POS.
LEAD FREE
GLOW WIRE COMPATIBLE:
G: COMPATIBLE

PART NUMBER	POS	Dimensions(mm)			
		A	B	C	D
10160855-04XLF	4	20.3	3.00	14.85	20.85
10160855-06XLF	6	23.3	6.00	17.85	23.85
10160855-08XLF	8	26.3	9.00	20.85	26.85
10160855-10XLF	10	29.3	12.00	23.85	29.85
10160855-12XLF	12	32.3	15.00	26.85	32.85
10160855-14XLF	14	35.3	18.00	29.85	35.85
10160855-16XLF	16	38.3	21.00	32.85	38.85
10160855-18XLF	18	41.3	24.00	35.85	41.85
10160855-20XLF	20	44.3	27.00	38.85	44.85
10160855-22XLF	22	47.3	30.00	41.85	47.85
10160855-24XLF	24	50.3	33.00	44.85	50.85

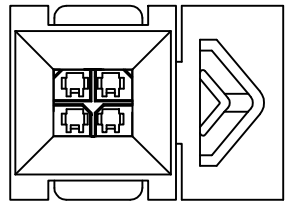
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				ISO 1302	ISO 406	ISO 1101		MINITEK PWR 3.0							
ltr	ecn no	dr	date	tolerances unless otherwise specified				title							
A		SONY	2020-10-28	angles	linear	.0±.30	mm	MINITEK PWR 3.0 BMI DUAL ROW PLUG HSG							
B	ELX-I-43588	ASLAM	2022-01-21			.00±.20									
				0°±x°		.000±.10	scale	N.T.S							
				dr	SONY	2020-10-28	Amphenol FCi	dwg no				sheet 1 of 2			
				engr	AKHIL RAJAN	2022-01-21		10160855				A3			
				chr	MITHUN PAUL	2022-01-21									
				appd	SPK	2022-01-21		type				Product Customer Drawing			
sheet index	revision sheet	B	B												
		1	2												

A

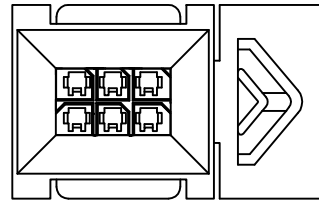
B

C

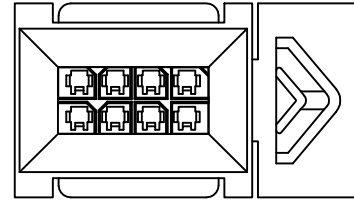
D



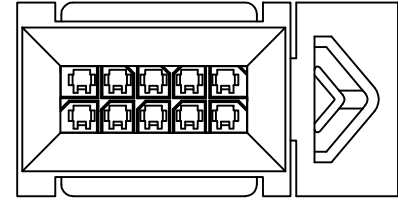
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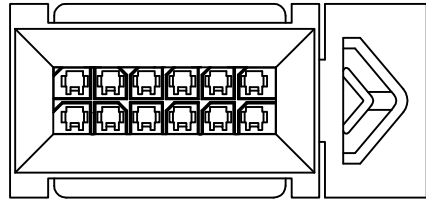
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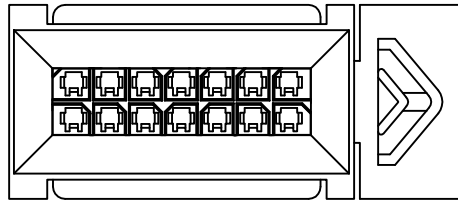
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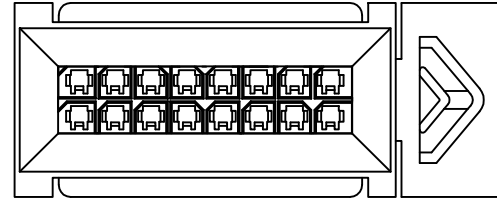
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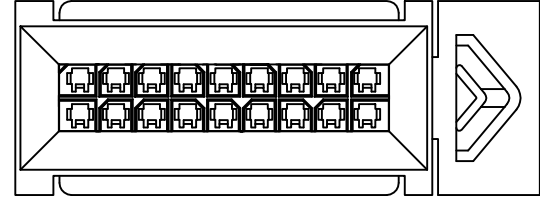
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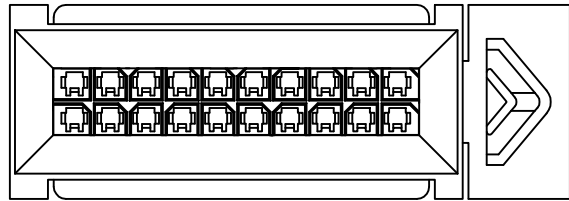
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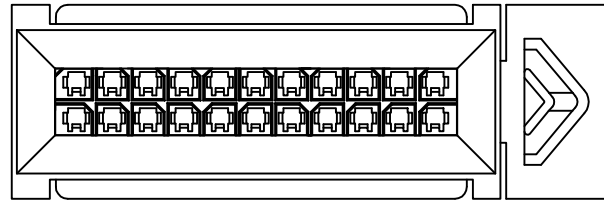
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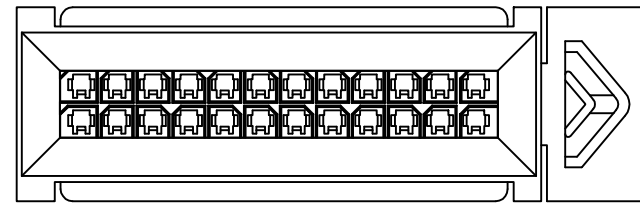
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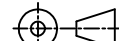
20POS



22POS



24POS

mat'l. code				surface ISO 1302		tolerance ISO 406 ISO 1101		projection 		product family MINITEK PWR 3.0											
ltr	ecn no	dr	date	tolerances unless otherwise specified								title MINITEK PWR 3.0 BMI DUAL ROW PLUG HSG									
				angles	linear	.0±.30						scale N.T.S.									
						.00±.20															
						.000±.10															
				dr	SONY		2020-10-28				dwg no				sheet 2 of 2				size		
				engr	AKHIL RAJAN		2022-01-21				10160855				A3						
				chr	MITHUN PAUL		2022-01-21														
				appd	SPK		2022-01-21														
sheet index		revision sheet		B	B																
				1	2																

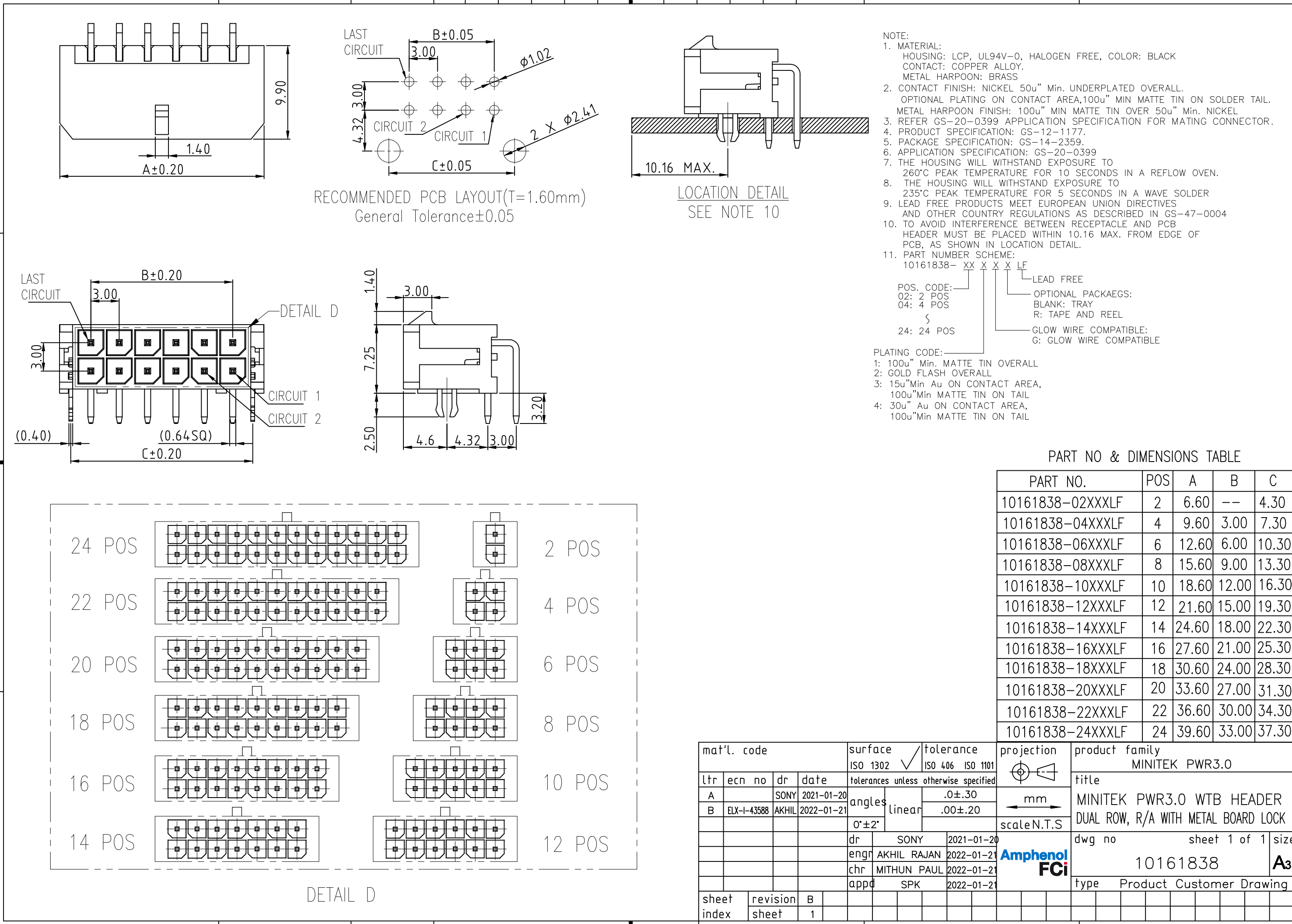


A

B

C

D



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