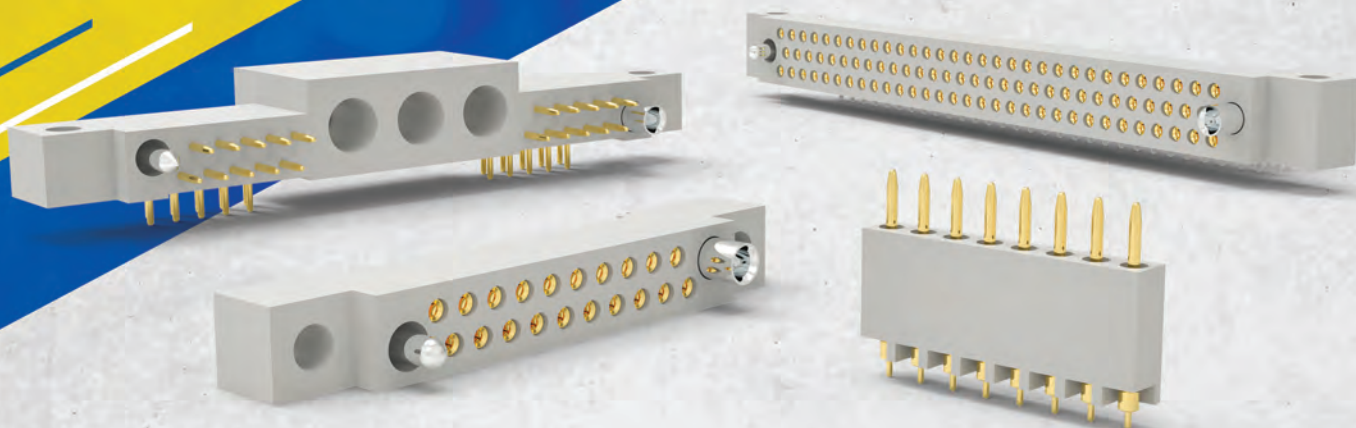


W Series

Rectangular — 0.100" (2.54mm)

 **AirBorn**
High-Reliability Interconnect Solutions





Welcome to the World of AirBorn Interconnect Solutions

JULY 2009

AirBorn has been manufacturing high reliability interconnect systems for more than 45 years with leading-edge, innovative technology that is more reliable and better-performing than practically all other alternatives.

Our advanced technologies, experienced design support, incomparable lead times and personalized customer service and support provide customers with complete solutions to a vast array of highly specialized design requirements in diverse markets and applications.

You will find in this catalog technical drawings and specification information that will help you solve your interconnection needs from the design stage through production specification.

The products in this catalog are organized by the AirBorn part number assigned to them.

Each connector part number identifies four elements:

- AirBorn Series
- Size (number of contacts)
- Contact Type
- Hardware Type

Each catalog page shows the choices available for each of these elements. By selecting one option from any category on the page, you can build a set of connectors to meet your requirements.

If you do not find a particular connector size or option, please contact AirBorn for further assistance. AirBorn can manufacture special configurations for your exact specifications.

When everything matters, go AirBorn.

www.AirBorn.com

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"W" SERIES - .100"

MIL-C-55302

See pages W-7 thru W-86

"WB" SERIES - .050"

MIL-C-55302

See pages WB-1 thru WB-13

"W" SERIES ACCESSORIES

See pages WA-1 thru WA-25



"W" SERIES - .100"
MIL-C-55302



Mating Matrix for AirBorn "W" Series Connectors

SOCKETS

P
I
N
S

SERIES	WT	WTA (F)	WTAX	WTB	WTBT	WTDX	WTK	WG	WGA	WGDV	WGK	WGR	WRD	WRDDX	WRF
WT	X														
WTA (T)		X		X	X	X	X								
WTAV			X	X	X	X	X								
WTB*P		X	X	X	X	X	X								
WTBV		X	X	X	X	X	X								
WTDV		X	X	X	X	X	X								
WTKV		X	X	X	X	X	X								
WG*P								X		X	X				
WGV								X		X	X				
WGA*P									X						
WGA									X						
WGDV								X		X	X				
WGKV								X		X	X				
WGR												X			
WRD*P													X	X	
WRDV													X	X	
WRF															X

I/O CONNECTORS WT, WTA, WTAX, WTDX, WTK, WG, WGA, WGDV, WGK, WRD, WRDDX, WRF

PCB CONNECTORS WT, WTA, WTAX, WTB, WTBT, WG, WGA, WRD, WRF

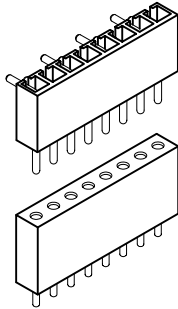
(T) = TURNING HARDWARE

(F) = FIXED HARDWARE



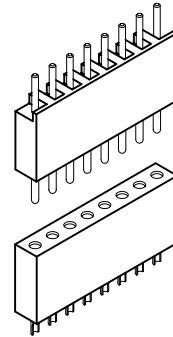
Daughterboard to Motherboard or Chassis

**Right angle plug to
straight receptacle**



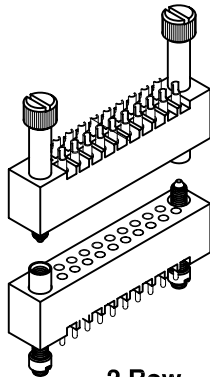
1 Row
Sizes: 3 thru 22
Page: W-11

**Straight plug to
straight receptacle**



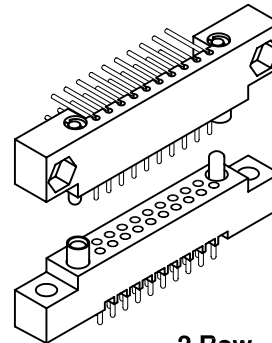
1 Row
Sizes: 3 thru 22
Page: W-13

**Cable to
board or panel**



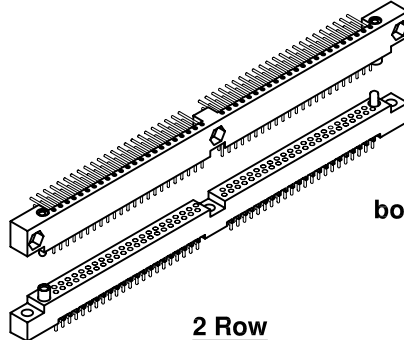
2 Row
Sizes: 10 thru 70
Page: W-15

**PC card to
board or chassis**



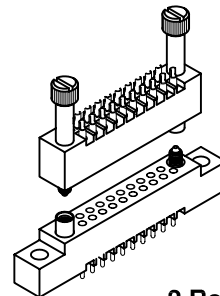
2 Row
Sizes: 10 thru 70
Page: W-19

**PC card to
board or chassis**



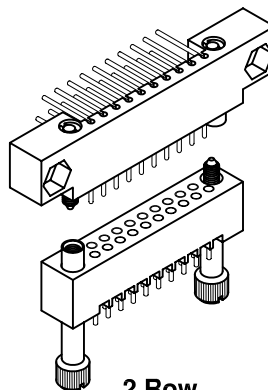
2 Row
Sizes: 90, 100 & 120
Page: W-21

**Cable to
board or PC card**



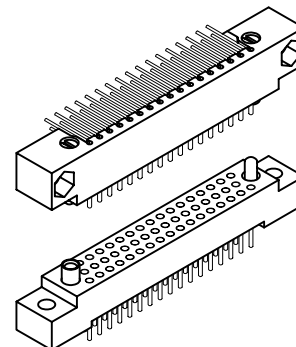
2 Row
Sizes: 10 thru 70
Page: W-27

**PC card to
board or PC card**



2 Row
Sizes: 10 thru 70
Page: W-29

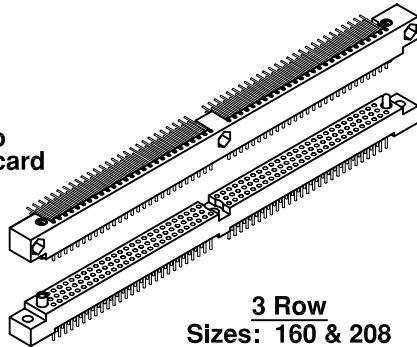
**PC card to
board or chassis**



3 Row
Sizes: 50 thru 104
Page: W-43

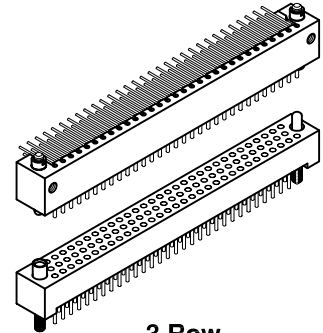
Daughterboard to Motherboard or Chassis

PC card to
board or PC card



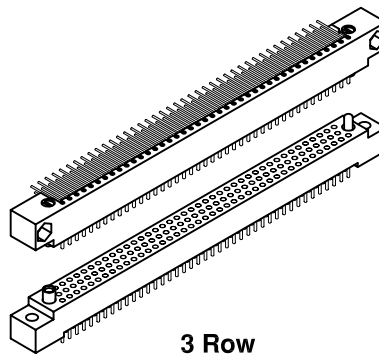
3 Row
Sizes: 160 & 208
Page: W-47

PC card to
board or chassis



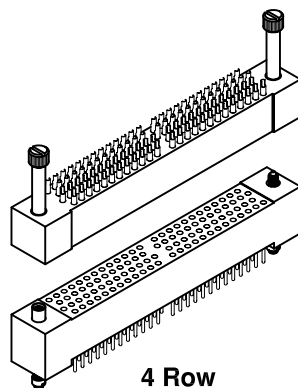
3 Row
Sizes: 92
Page: W-53

PC card to
board or chassis



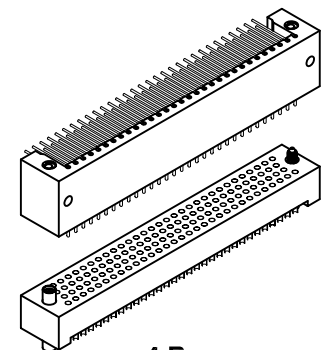
3 Row
Sizes: 122
Page: W-55

Cable to
board or panel



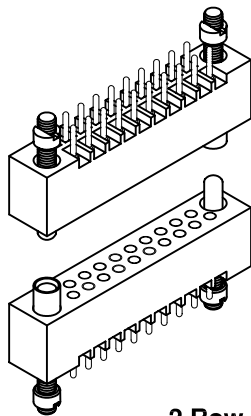
4 Row
Sizes: 100
Page: W-59

PC card to
board or chassis

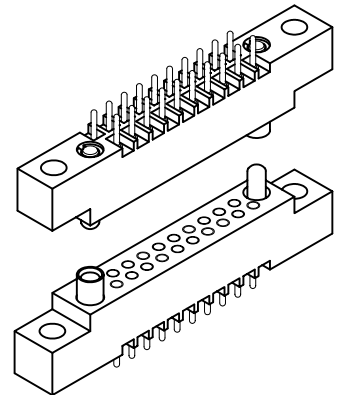


4 Row
Sizes: 122
Page: W-61

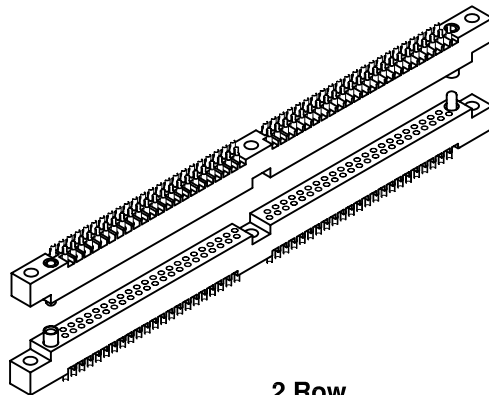
Sandwich Boards



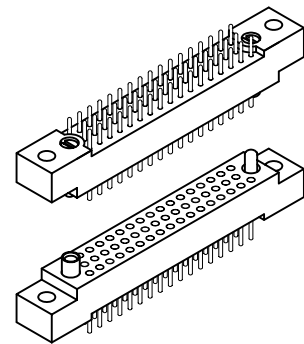
2 Row
Sizes: 10 thru 70
Page: W-17



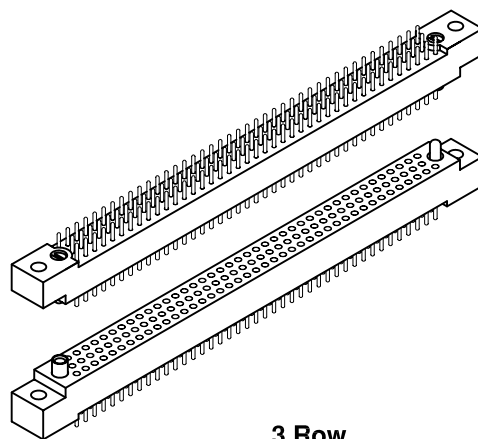
2 Row
Sizes: 10 thru 70
Page: W-23



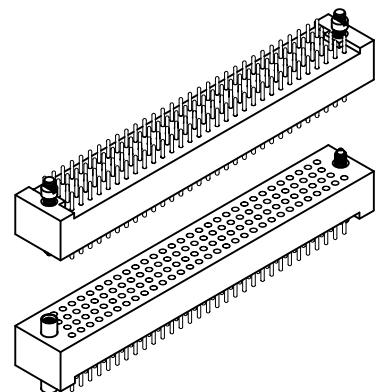
2 Row
Sizes: 90 & 100
Page: W-25



3 Row
Sizes: 50 thru 104
Page: W-45



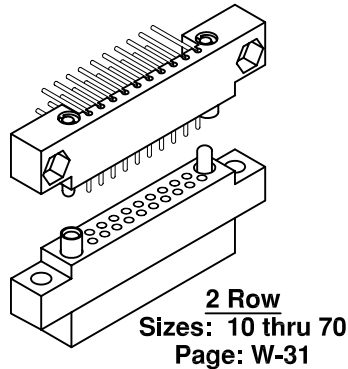
3 Row
Sizes: 122
Page: W-57



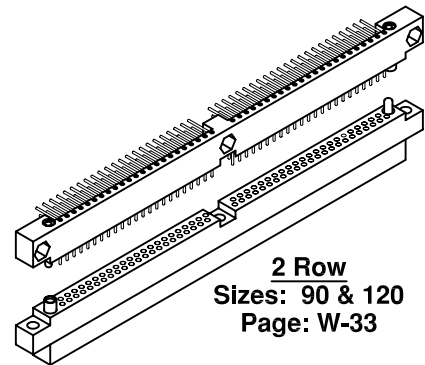
4 Row
Sizes: 122
Page: W-63

Crimp Removable

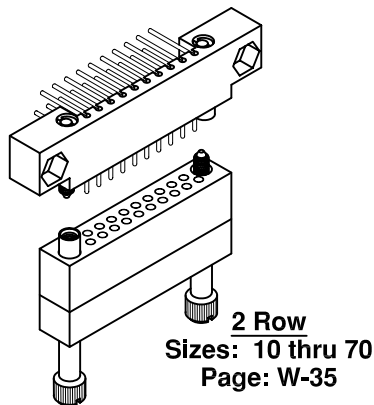
PC card to
chassis



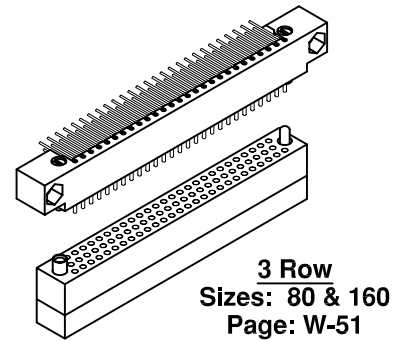
PC card to
chassis



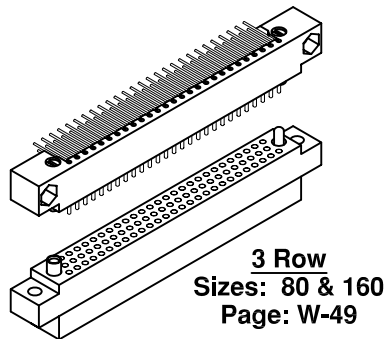
PC card to
board



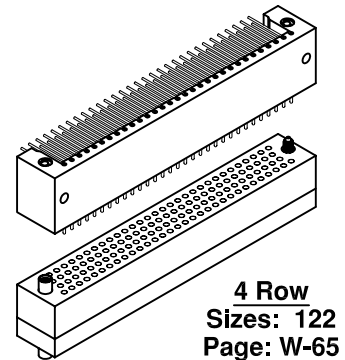
PC card to
chassis



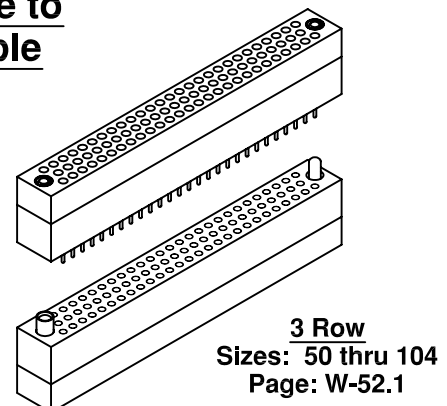
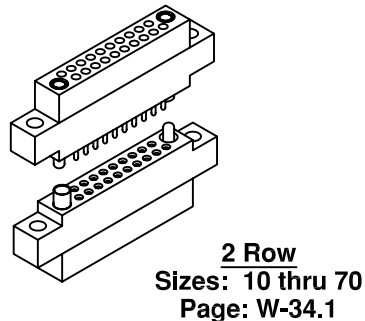
PC card to
chassis



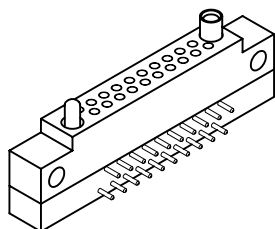
PC card to
cable



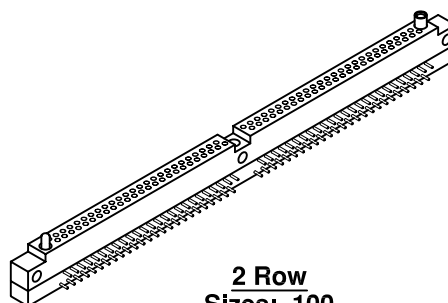
Crimp Removable to Crimp Removable



Extender Boards



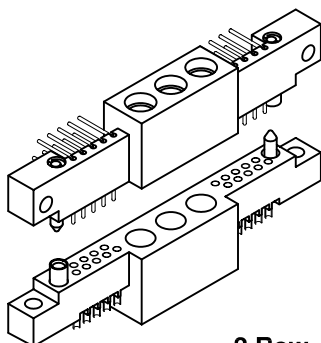
2 Row
Sizes: 10 thru 70
Page: W-39



2 Row
Sizes: 100
Page: W-41

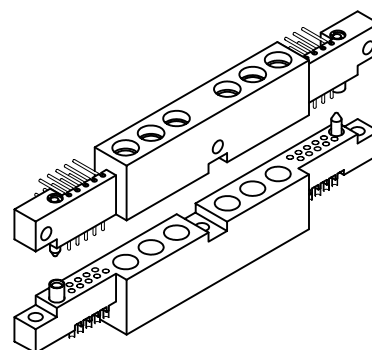
Coax Connectors

**PC Card to
board or chassis**



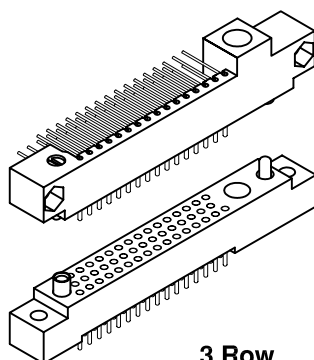
2 Row
Sizes: 20-3
Page: W-67

**PC Card to
board or chassis**



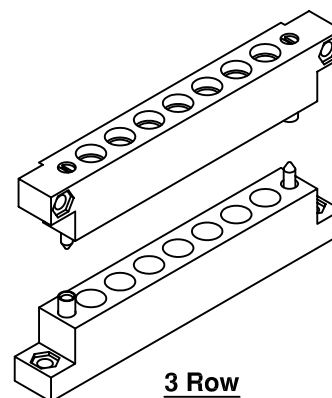
2 Row
Sizes: 20-6
Page: W-69

**PC Card to
chassis or board**



3 Row
Sizes: 47-1
Page: W-71

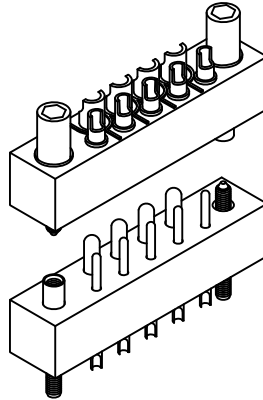
**PC Card to
chassis**



3 Row
Sizes: 1, 7 & 11
Page: W-73

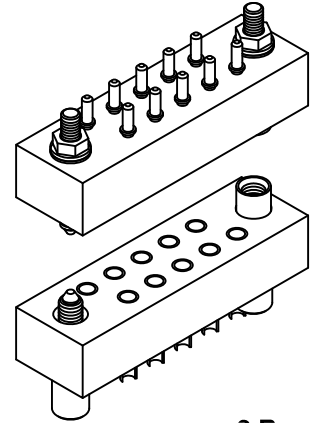
Misc Connectors

Power cable to
chassis



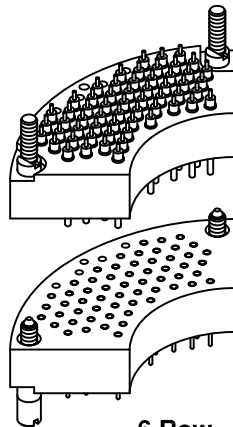
2 Row
Sizes: 5 & 4-5
Page: W-75

Power cable to
chassis



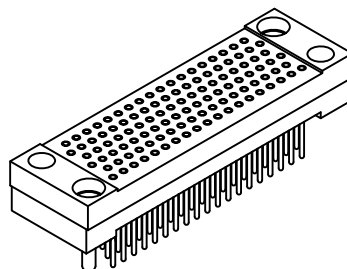
2 Row
Sizes: 10
Page: W-77

Quarter
round
sandwich
boards



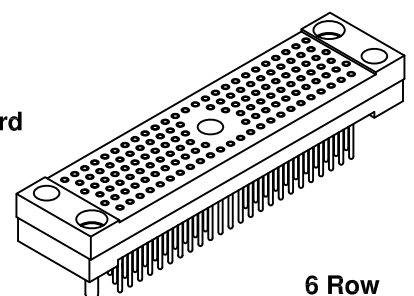
6 Row
Sizes: 59
Page: W-79

Stackable
board to board



6 Row
Sizes: 111
Page: W-83

Stackable
board to board



6 Row
Sizes: 135
Page: W-85

Contents

"W" Series

.100" Rectangular Plastic Board Level Connectors

W-1	Index
W-7	Contents
W-8	Specifications
W-9	Performance
W-10	Part number description

1-Row Connectors - Board to Board, Board to Cable

W-11	WT - WT	PC card to cable or board, cable to cable
W-13	WT - WT	PC card to cable or board, cable to cable

2-Row Connectors - Board to Board, Board to Cable, Sizes: 10-100

W-15	WTA - WTA	Cable to board or panel, without mounting ears. Sizes: 10 thru 70
W-17	WTAV-WTAX	Sandwich boards (straight to straight). Sizes: 10 thru 70
W-19	WTB - WTB	PC card to board or chassis. Sizes: 10 thru 70
W-21	WTB - WTB	PC card to board or chassis. Sizes: 90, 100 & 120
W-23	WTBV - WTB	Sandwich boards. Sizes: 10 thru 70
W-25	WTBV - WTB	Sandwich boards. Sizes: 90 & 100
W-27	WTA - WTB	Cable to board or PC card. Sizes: 10 thru 70
W-29	WTB - WTAX	PC card to board or PC card. Sizes: 10 thru 70
W-31	WTB - WTKA	PC card to chassis (crimp removable), with mounting ears. Sizes: 10 thru 70
W-33	WTB - WTKA	PC card to chassis (crimp removable), with mounting ears. Sizes: 90 & 120
W-34.1	WTKV - WTKA	Chassis to chassis (crimp removable), with mounting ears. Sizes: 10 thru 70
W-35	WTB - WTDXA	PC card to cable (crimp removable), without mounting ears. Sizes: 10 thru 70
W-37	WTB - WTDXA	PC card to cable (crimp removable), without mounting ears. Sizes: 90 & 120
W-38.1	WTDV - WTDXA	Chassis to chassis (crimp removable), without mounting ears. Sizes: 10 thru 70
W-39	WTBT	Extender board (right angle receptacle). Sizes: 10 thru 70
W-41	WTBT	Extender board (right angle receptacle). Sizes: 100

3-Row Connectors - Board to Board, Board to Cable

W-43	WG - WG	PC card to board or chassis. Sizes: 50 thru 104
W-45	WGV - WG	Sandwich board to PC card. Sizes: 50 thru 104
W-47	WG - WG	PC card to board or PC card. Sizes: 160 & 208
W-49	WG - WGKA	PC card to chassis (crimp removable), with mounting ears. Sizes: 80 & 160
W-50.1	WGKV - WGKA	Chassis to chassis (crimp removable), with mounting ears. Sizes: 50 thru 104
W-51	WG - WGDXA	PC card to chassis (crimp removable), without mounting ears. Sizes: 80 & 160
W-52.1	WGDV - WGDXA	Chassis to chassis (crimp removable), without mounting ears. Sizes: 50 thru 104
W-53	WGR - WGR	PC card to board or chassis. Sizes: 92
W-55	WGA - WGA	PC card to board or chassis. Sizes: 122
W-57	WGA - WGA	Sandwich boards. Sizes: 122

4-Row Connectors - Board to Board, Board to Cable

W-59	WRF - WRF	Cable to board or panel. Sizes: 100
W-61	WRD - WRD	PC card to board or chassis. Sizes: 122
W-63	WRDV - WRD	Sandwich boards. Sizes: 122
W-65	WRD - WRDDXA	PC card to cable (crimp removable) without mounting ears. Sizes: 122

Coax Hybrid Connectors - PC Card to Board, Board to Cable (SMB slide-on, 50 ohm contacts)

W-67	WTB20-3	Signal-coax hybrid, PC card to board or chassis. Sizes: 20-3
W-69	WTB20-6	Signal-coax hybrid, PC card to board or chassis. Sizes: 20-6
W-71	WG47-1	Signal-coax hybrid, PC card to board or chassis. Sizes: 47-1
W-73	WRBC	Coax hybrid. Sizes 1, 7 & 11

Miscellaneous Connectors

W-75	PA - PA	Power connector (#12 & #16 contacts) to chassis. Sizes: 5 & 4-5
W-77	PA - PA	Power connector (#12 contacts) to chassis. Sizes: 10
W-79	WTA59 - WTA59	Quarter round sandwich boards. Sizes: 59
W-83	WE	Stackable, board to board. Sizes: 111
W-85	WE	Stackable, board to board. Sizes: 135

Contents

"WB" Series

.050" Rectangular Plastic Board Level Connectors

WB-1	Contents
WB-2	Specifications
WB-3	Performance
WB-4	Part number description
	2-Row Connectors - PC Card or SMT to Board, Sizes: 20-132
WB-5	WB Plug, right angle, with mounting ears
	WB Receptacle, straight, with mounting ears
WB-7	WBB, WBA Plug, straight, surface mount, with mounting ears
	WB Receptacle, straight, with mounting ears
WB-9	Hardware
WB-10	WB Board layout - plug, right angle
WB-11	WB Board layout - receptacle, straight
WB-12	WBB, WBA Board layout - plug, straight, surface mount
	Military Cross Reference
WB-13	Chart

Specifications

Materials and Finishes *

Pin Contacts:	Copper alloy per MIL-C-55302
Socket Contacts:	Clipped contacts: Contact: BeCu per MIL-C-55302 Terminal: Copper alloy per MIL-C-55302 Crimp removable contacts: Contact & terminal: Copper alloy per MIL-C-55302
Contact Finish:	Gold plate per ASTM B 488 or SAE AMS 2422. Localized finish per MIL-C-55302
Molded Insulators:	Glass filled polyphenylene sulfide per MIL-M-24519, Type GST-40F
Jackscrews:	Stainless steel per ASTM A 582/A582M-, Passivated per ASTM-A967, SAE AMS-QQ-P-35
Jacksockets:	Stainless steel per ASTM A 582/A582M-, Passivated per ASTM-A967, SAE AMS-QQ-P-35
Jackscrew Knobs:	Stainless steel per ASTM A 582/A582M-, Passivated per ASTM-A967, SAE AMS-QQ-P-35
Guide Pins, Guide Sockets:	Stainless steel per ASTM A 582/A582M-, Passivated per ASTM-A967, SAE AMS-QQ-P-35
Guide Sockets, Polarized "D" type:	BeCu per ASTM-B196, ASTM B 197/B 197M-, Nickel plated per SAE AMS-QQ-N-290
Face Seal Gasket:	Silicone rubber per A-A-59588
Miscellaneous:	
Connector Markings:	Contact numbers are stamped on the side of the connector. Numbers are stamped on the low-numbered side only on 2-row and 3-row right angle connectors
Torque:	Polarizing Guides and Floating Mounts: 16 + 8/-0 inch ounces. (Minimum of 7 inch ounce reverse torque per Mil-C-55302). Mounting & Hood Hardware: 24 inch ounces maximum. Mating Jacksets: 32 inch ounces maximum Wrap Post: 2 inch ounce minimum per Mil-STD-1130. Helicoil Inserts: #2-56 – 24 in/oz. maximum. #4-40 – 32 in/oz. maximum.
Tolerances:	Unless otherwise specified: Fractions = $\pm 1/64$ " Decimals = $\pm .010$ " Angles = $\pm 5^\circ$

Note: AirBorn can manufacture special configurations for your exact specifications.

* = Reference the above listed specifications or an equivalent industry standard when applicable



Performance Reference MIL-C-55302

Contact Rating: 5-amperes

Solderability: Terminals (except wire wrap[®] and crimp) tested in accordance with MIL-STD-202, Method 208 or J-STD-002

Wire Size: Stranded #22 AWG (adapter sleeves available for larger sizes or twisted pairs).

Operating Temperature: -65° to +125° C or -85° to +257° F

<u>Category:</u>	<u>Requirements:</u>	<u>Test Method Per:</u> <u>MIL-STD-1344</u>	<u>EIA-364 EQUIVALENT</u>
Test Voltage:	1,000 V, RMS, 60 Hz @ sea level 300 V, RMS, 60 Hz @ 70,000 feet	#3001	EIA-364-20, Method A EIA-364-20 Method A, Condition IV
Insulation Resistance:	5,000 megohms minimum @ 500 VDC	#3003	EIA-364-21
Durability:	500 connector mating cycles		
Vibration:	15 G's, no interruption > 1.0 microsecond	#2005	EIA-364-28, Condition III
Salt Spray:	PASS	#1001	EIA-364-26, Condition B
Shock:	100 G's, no interruption > 1.0 microsecond	#2004	EIA-364-27, Condition G
Humidity:	PASS	#1002	EIA-364-31, Method IV except steps 7A and 7B
Thermal Shock:	PASS	#1003	EIA-364-32, Method A, Condition III
Contact Resistance:	.025 volt maximum drop @ 5 amperes - .005 ohms (interface measurement)	#3004	EIA-364-06
Contact Engaging Force:	4.00 oz. maximum with .031 diameter test pin per SAE AS31971	#2014 & MIL-C-55302	EIA-364-37, Method A
Sizes 50 and larger:	Upon engagement, center area of mating faces may remain open .010" to .025" due to slight flexing of molding. Vibration or shock should provide complete closure.		
Guides and Jacks:	If location of pin or socket contacts is reversed, location of male and female guides or jacks is also reversed; except when using "D" shaped polarized guides. When polarized positions are changed, apply Loctite [®] 083 or equivalent to threads.		

Note: See "Military Cross Reference" chart in the Accessories section.

Part Number Description

Each part number consists of at least four elements: series, size (number of contacts), type of contacts, and type of hardware. A fifth element is added whenever special modifications or options are available.

Each catalog page shows the choices available for each of these elements. By selecting one option from each category on the page, you can build a set of connectors to meet your requirements.

Each part number is identified by a combination of letters and/or numbers of varying lengths. These elements are written together without spaces or punctuation.

Series:

The series designator identifies the connector body style. Some body moldings are modified to accommodate right angle pins, but carry the same series number. Follow choices on each catalog page for series selections.

Size:

The size is determined by the number of contacts in the connector, and is an integral part of the part number. Order only sizes shown on the catalog page.

Contacts:

Each page also identifies contact options for a given connector. Please note that starting with the largest connectors, we are routinely substituting low-force sockets.

Hardware:

Hardware options are shown on each catalog page.

Notes:

If options or modifications are available for a given connector, it will be stated on the catalog page, or you will be referred to a different page for specific instructions. Remember when adding a suffix to the part number, add it exactly as instructed.

Each page is as comprehensive as possible. However, if you do not find a particular connector size or option, please contact the factory for further assistance.

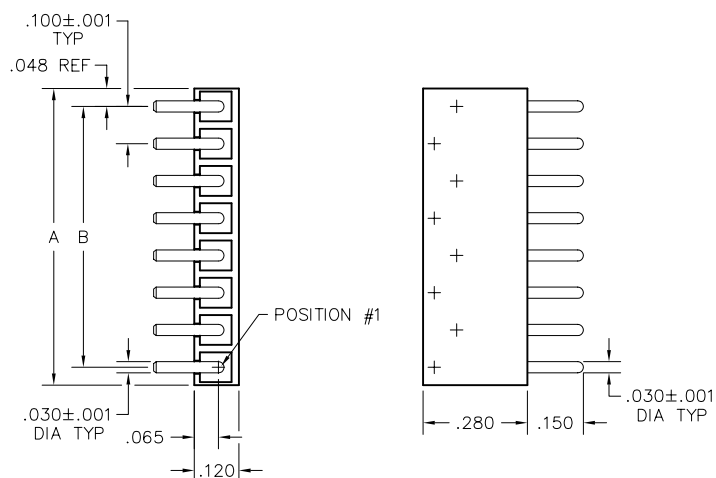
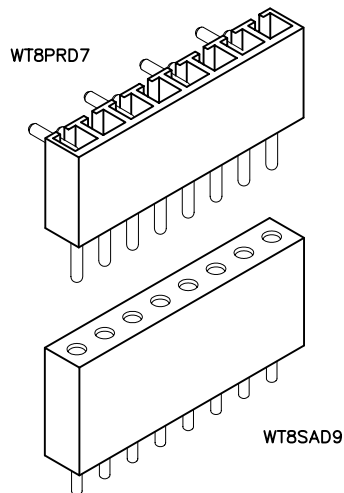


1 • ROW Right Angle Plug to Straight Receptacle

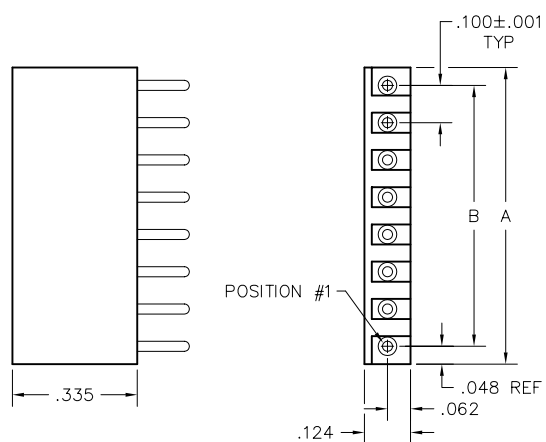
.100"

WT - WT

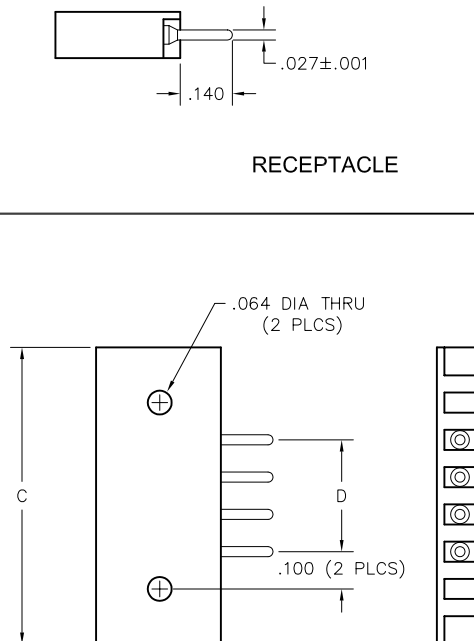
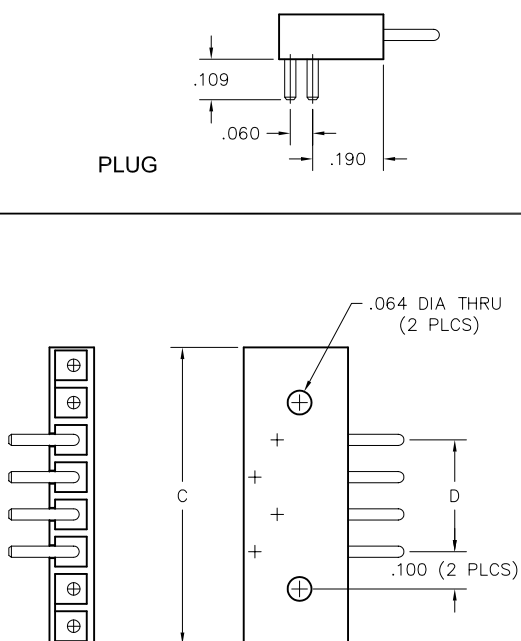
3 thru 22 Contacts



PLUG



RECEPTACLE



MOUNTING HOLES
(OPTION: CD)

PLUG: WT 8 PRD7
 RECEPTACLE: WT 8 SAD9
 XX X XXXX

PLUG

RECEPTACLE

SERIES	
WT Plug, right angle, no mounting ears	WT Receptacle, straight, no mounting ears
SIZE	
Number of contacts (3 thru 22)	Number of contacts (3 thru 22)
CONTACTS	

TYPE CONTACTS/TERMINATIONS:
 PRD4 Pin, right angle, dip solder, .063" x .030" dia
 PRD7 Pin, right angle, dip solder, .109" x .030" dia
 PRD8 Pin, right angle, dip solder, .125" x .030" dia

TYPE CONTACTS/TERMINATIONS:
 SAC Socket, straight, solder cup (.035" I.D.)
 SAD7 Socket, straight, dip solder, .109" x .027" dia
 SAD9 Socket, straight, dip solder, .140" x .027" dia
 SAD11 Socket, straight, dip solder, .172" x .027" dia
 SAD15 Socket, straight, dip solder, .234" x .027" dia
 SAF3 Socket, straight, flex circuit, .050"
 SAF6 Socket, straight, flex circuit, .093"
 SAG7 Socket, straight, dip solder, .109" x .018" dia
 SAG9 Socket, straight, dip solder, .140" x .018" dia
 SAG11 Socket, straight, dip solder, .172" x .018" dia
 SAP Socket, straight, pin termination, .150" (connector saver)
 SAR4 Socket, right angle, dip solder, .062" x .025" dia
 SAR7 Socket, right angle, dip solder, .109" x .025" dia
 SAR9 Socket, right angle, dip solder, .140" x .025" dia
 SARC Socket, right angle, solder cup
 SAW40 Socket, straight, wire wrap®, .625"

OPTIONS

- Option Codes: Add to the end of the part number. Example: WT10PC443-1. Call factory for additional codes.
- 443 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section.
- 444 Contact position noted by dash number is left open (to mate with -443). See "Polarization" in Accessories section.
- B82 Termination face sealed against conformal coating
- CD Cross drilled connector for hold down screws. See page W-11. Example: WT8PRD7CD or WT8SACCD.
- D01 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free).
- D54 Combine -B82 & -D01 options
- G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)

Note: The thin outboard barriers are often removed at the factory due to their fragile nature.

☒ = Option not RoHS compliant

DIMENSIONS		
SIZE	A	B
3	.296	.200
4	.396	.300
5	.496	.400
6	.596	.500
7	.696	.600
8	.796	.700
9	.896	.800
10	.996	.900
11	1.096	1.000
12	1.196	1.100
13	1.296	1.200
14	1.396	1.300
15	1.496	1.400
16	1.596	1.500
17	1.696	1.600
18	1.796	1.700
19	1.896	1.800
20	1.996	1.900
21	2.096	2.000
22	2.196	2.100

DIMENSIONS (CD)			
SIZE	# OF CONTACTS	C	D
5	1	.496	—
6	2	.596	.100
7	3	.696	.200
8	4	.796	.300
9	5	.896	.400
10	6	.996	.500
11	7	1.096	.600
12	8	1.196	.700
13	9	1.296	.800
14	10	1.396	.900
15	11	1.496	1.000
16	12	1.596	1.100
17	13	1.696	1.200
18	14	1.796	1.300
19	15	1.896	1.400
20	16	1.996	1.500
21	17	2.096	1.600
22	18	2.196	1.700

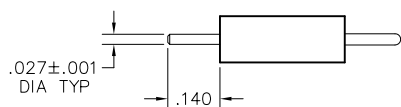
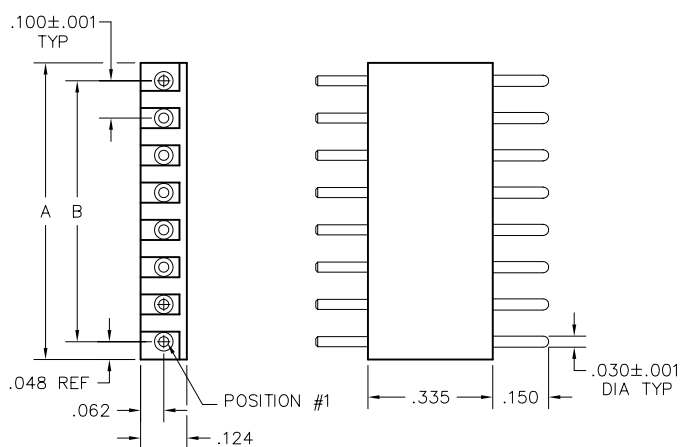
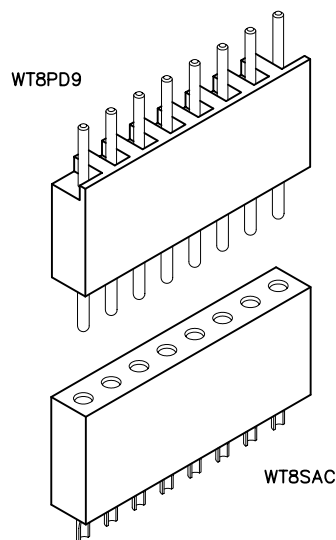


1 • ROW Straight Plug to Straight Receptacle

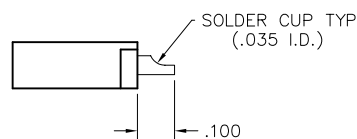
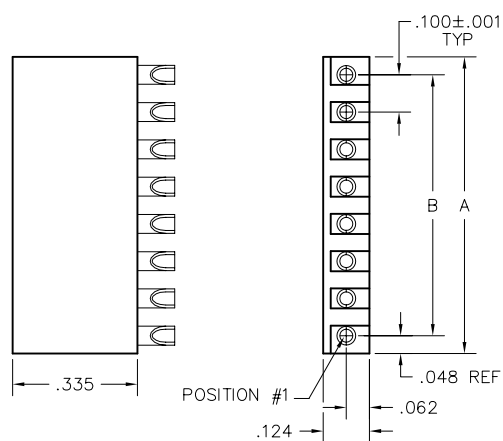
.100"

WT - WT

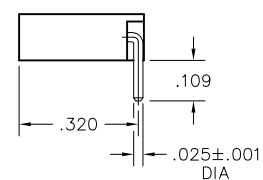
3 thru 22 Contacts



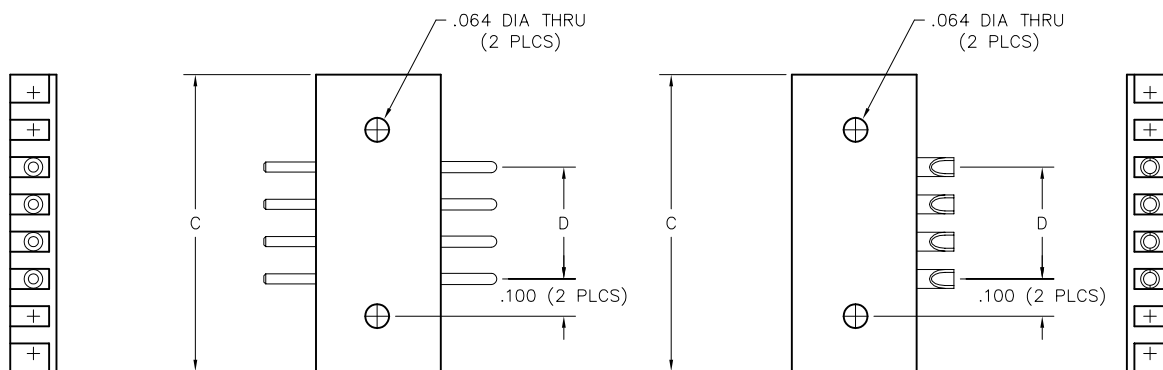
PLUG



RECEPTACLE



RIGHT ANGLE
(WT8SAR7)



MOUNTING HOLES
(OPTION: CD)

PLUG: WT 8 PD9
 RECEPTACLE: WT 8 SAC
 XX X XXX

PLUG		RECEPTACLE	
SERIES			
WT Plug, straight, no mounting ears	WT Receptacle, straight, no mounting ears		
SIZE			
Number of contacts (3 thru 22)		Number of contacts (3 thru 22)	
CONTACTS			
TYPE CONTACTS/TERMINATIONS: PC Pin, straight, solder cup (.035" I.D.) PD7 Pin, straight, dip solder, .109" x .027" dia PD9 Pin, straight, dip solder, .140" x .027" dia PD11 Pin, straight, dip solder, .172" x .027" dia PF3 Pin, straight, flex circuit, .050" PF6 Pin, straight, flex circuit, .093" PW40 Pin, straight, wire wrap®, .625"		TYPE CONTACTS/TERMINATIONS: SAC Socket, straight, solder cup (.035" I.D.) SAD7 Socket, straight, dip solder, .109" x .027" dia SAD9 Socket, straight, dip solder, .140" x .027" dia SAD11 Socket, straight, dip solder, .172" x .027" dia SAD15 Socket, straight, dip solder, .234" x .027" dia SAF3 Socket, straight, flex circuit, .050" SAF6 Socket, straight, flex circuit, .093" SAG7 Socket, straight, dip solder, .109" x .018" dia SAG9 Socket, straight, dip solder, .140" x .018" dia SAG11 Socket, straight, dip solder, .172" x .018" dia SAP Socket, straight, pin termination, .150" (connector saver) SAR4 Socket, right angle, dip solder, .062" x .025" dia SAR7 Socket, right angle, dip solder, .109" x .025" dia SAR9 Socket, right angle, dip solder, .140" x .025" dia SARC Socket, right angle, solder cup SAW40 Socket, straight, wire wrap®, .625"	

OPTIONS

- Option Codes: Add to the end of the part number. Example: WT10PC443-1. Call factory for additional codes.
- 443 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section.
- 444 Contact position noted by dash number is left open (to mate with -443). See "Polarization" in Accessories section.
- B82 Termination face sealed against conformal coating
- CD Cross drilled connector for hold down screws. See page W-13. Example: WT8PCCD or WT8SACCD.
- D01 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free).
- D54 Combine -B82 & -D01 options
- G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)

Note: The thin outboard barriers are often removed at the factory due to their fragile nature.

☒ = Option not RoHS compliant

DIMENSIONS		
SIZE	A	B
3	.296	.200
4	.396	.300
5	.496	.400
6	.596	.500
7	.696	.600
8	.796	.700
9	.896	.800
10	.996	.900
11	1.096	1.000
12	1.196	1.100
13	1.296	1.200
14	1.396	1.300
15	1.496	1.400
16	1.596	1.500
17	1.696	1.600
18	1.796	1.700
19	1.896	1.800
20	1.996	1.900
21	2.096	2.000
22	2.196	2.100

DIMENSIONS (CD)			
SIZE	# OF CONTACTS	C	D
5	1	.496	—
6	2	.596	.100
7	3	.696	.200
8	4	.796	.300
9	5	.896	.400
10	6	.996	.500
11	7	1.096	.600
12	8	1.196	.700
13	9	1.296	.800
14	10	1.396	.900
15	11	1.496	1.000
16	12	1.596	1.100
17	13	1.696	1.200
18	14	1.796	1.300
19	15	1.896	1.400
20	16	1.996	1.500
21	17	2.096	1.600
22	18	2.196	1.700



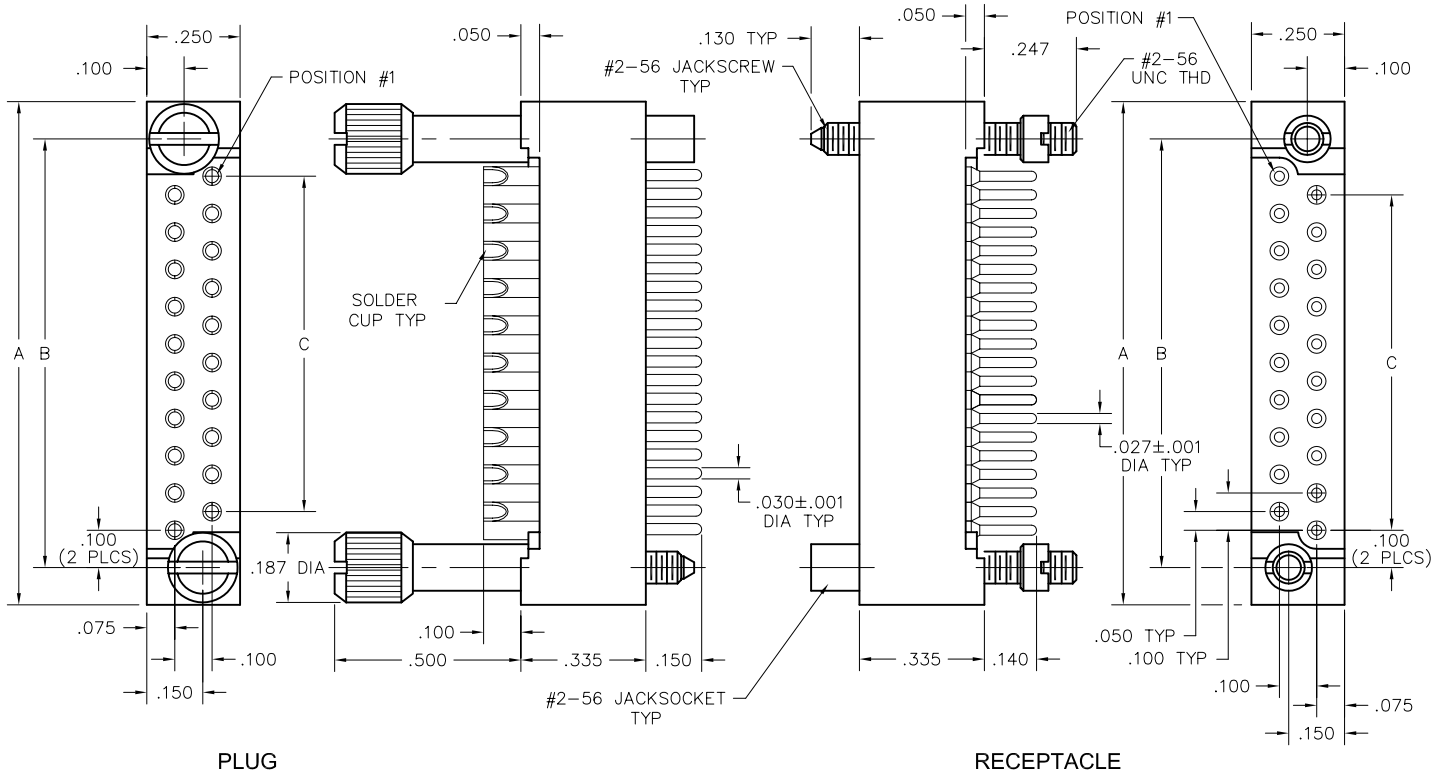
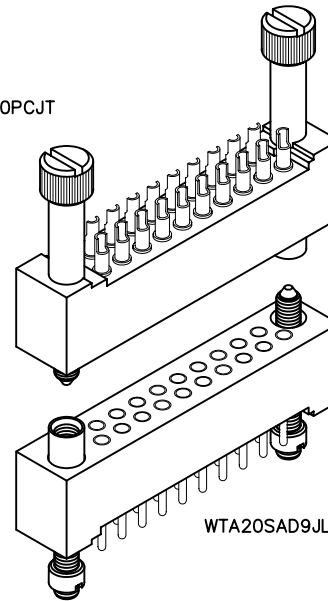
2 • ROW Cable to Board or Panel

.100"

WTA - WTA

10 thru 70 Contacts

WTA20PCJT



DIMENSIONS							
SIZE	A	B	C	SIZE	A	B	C
10	.850	.650	.400	44	2.550	2.350	2.100
14	1.050	.850	.600	50	2.850	2.650	2.400
20	1.350	1.150	.900	54	3.050	2.850	2.600
24	1.550	1.350	1.100	56	3.150	2.950	2.700
26	1.650	1.450	1.200	60	3.350	3.150	2.900
30	1.850	1.650	1.400	66	3.650	3.450	3.200
36	2.150	1.950	1.700	70	3.850	3.650	3.400
40	2.350	2.150	1.900				

PLUG: WTA 20 PC JT
 RECEPTACLE: WTA 20 SAD9 JL
 XXX XX XXXX XX

PLUG

RECEPTACLE

SERIES	
WTA Plug, straight, no mounting ears	WTA Receptacle, straight, no mounting ears
SIZE	
XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)	XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)

CONTACTS

- Pin or socket contacts can be used in either plug or receptacle.
- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

TYPE CONTACTS/TERMINATIONS:

PC	Pin, straight, solder cup (.035" I.D.)
PD5	Pin, straight, dip solder, .078" x .027" dia
PD7	Pin, straight, dip solder, .109" x .027" dia
PD9	Pin, straight, dip solder, .140" x .027" dia
PD11	Pin, straight, dip solder, .172" x .027" dia
PD13	Pin, straight, dip solder, .203" x .027" dia
PD15	Pin, straight, dip solder, .234" x .027" dia
PD20	Pin, straight, dip solder, .312" x .027" dia
PF3	Pin, straight, flex circuit, .050"
PF6	Pin, straight, flex circuit, .093"
PF8	Pin, straight, flex circuit, .125"
PW34	Pin, straight, wire wrap®, .531"
PW40	Pin, straight, wire wrap®, .625"

TYPE CONTACTS/TERMINATIONS:

SAC	Socket, straight, solder cup (.035" I.D.)
SAD7	Socket, straight, dip solder, .109" x .027" dia
SAD9	Socket, straight, dip solder, .140" x .027" dia
SAD11	Socket, straight, dip solder, .172" x .027" dia
SAF3	Socket, straight, flex circuit, .050"
SAF6	Socket, straight, flex circuit, .093"
SAF9	Socket, straight, flex circuit, .140"
SAG7	Socket, straight, dip solder, .109" x .018" dia
SAG9	Socket, straight, dip solder, .140" x .018" dia
SAG11	Socket, straight, dip solder, .172" x .018" dia
SAP	Socket, straight, pin termination, .150" (connector saver)
SAW24	Socket, straight, wire wrap®, .375"
SAW40	Socket, straight, wire wrap®, .625"

HARDWARE

- Jackset hardware determines image of connector. Must specify image with guide set hardware.
- Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WTA10PD9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.
- Fixed jackset, long (JL) includes jackscrew or jacksocket, #2-56 nut, #2 flat washer & #2 lockwasher.

JT	Turning jackset, .500"	J	Fixed jackset
JTA	Turning jackset, .200"	JL	Fixed jackset, long
JTB	Hex turning jackset, .200"		
JTC	Hex turning jackset, .500"		
JTL	Turning jackset, .700"		

OPTIONS

- Option Codes: Add to the end of the part number. Example: WTA10SAD9J-D01. Call factory for additional codes.
- 443 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section.
- 444 Contact position noted by dash number is left open (to mate with -443). See "Polarization" in Accessories section.
- B82 Termination face sealed against conformal coating
- D01 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with 63/37 or 60/40 solder. ☑
- P39 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free).
- D54 Combine -B82 & -D01 options
- G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)

☑ = Option not RoHS compliant



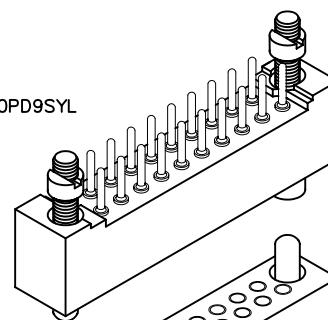
2 • ROW Sandwich Boards

.100"

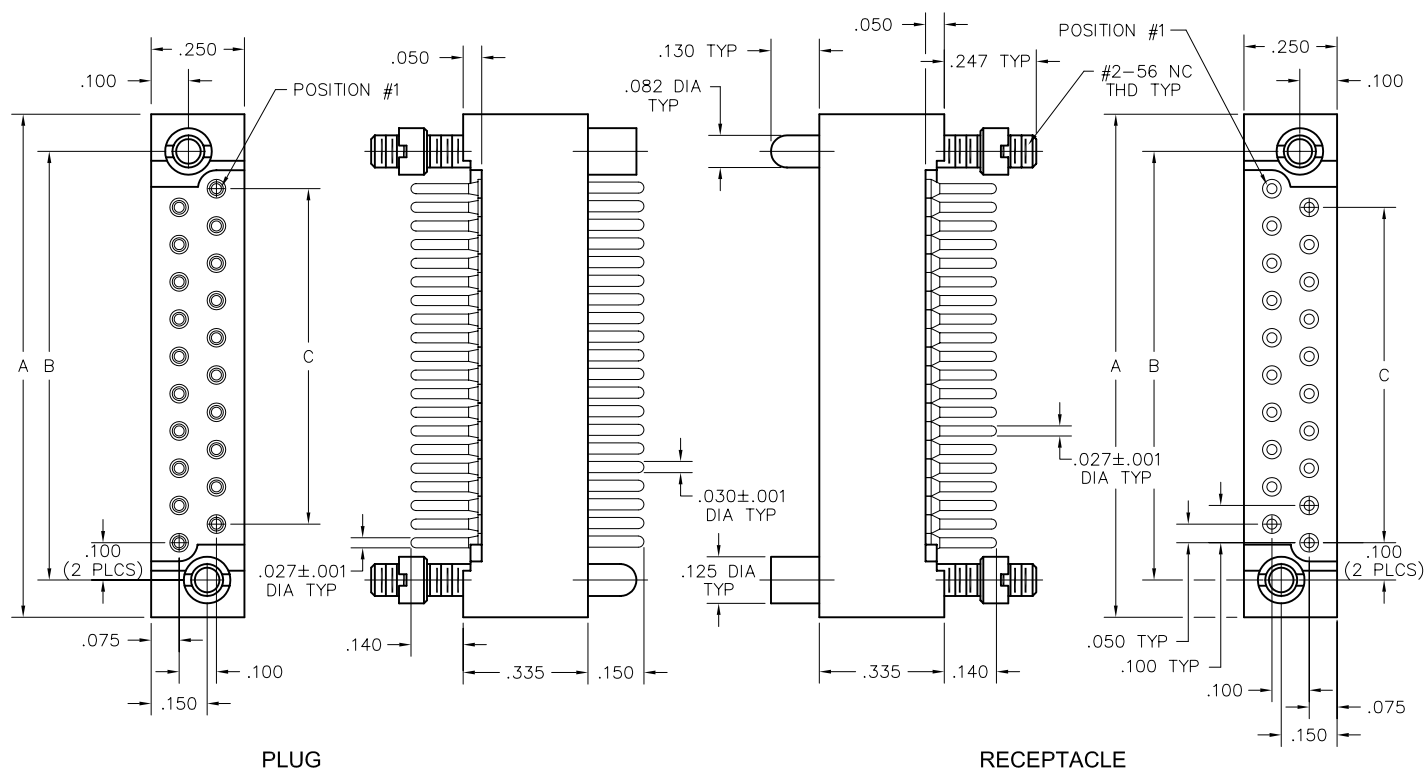
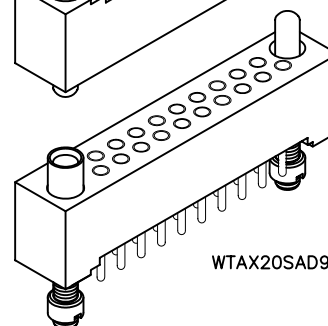
WTAV - WTAX

10 thru 70 Contacts

WTAV20PD9SYL



WTAX20SAD9SYL



DIMENSIONS							
SIZE	A	B	C	SIZE	A	B	C
10	.850	.650	.400	44	2.550	2.350	2.100
14	1.050	.850	.600	50	2.850	2.650	2.400
20	1.350	1.150	.900	54	3.050	2.850	2.600
24	1.550	1.350	1.100	56	3.150	2.950	2.700
26	1.650	1.450	1.200	60	3.350	3.150	2.900
30	1.850	1.650	1.400	66	3.650	3.450	3.200
36	2.150	1.950	1.700	70	3.850	3.650	3.400
40	2.350	2.150	1.900				

PLUG: WTAV 20 PD9 SYL
RECEPTACLE: WTAX 20 SAD9 SYL
XXXX XX XXXX XXX

PLUG

RECEPTACLE

SERIES	
WTAV Plug, straight, no mounting ears	WTAX Receptacle, straight, no mounting ears
	WTAX Receptacle, right angle, no mounting ears
SIZE	
XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)	XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)

CONTACTS

- Pin or socket contacts can be used in either plug or receptacle.
- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

TYPE CONTACTS/TERMINATIONS:

PC	Pin, straight, solder cup (.035" I.D.)
PD7	Pin, straight, dip solder, .109" x .027" dia
PD9	Pin, straight, dip solder, .140" x .027" dia
PD11	Pin, straight, dip solder, .172" x .027" dia
PF3	Pin, straight, flex circuit, .050"
PF6	Pin, straight, flex circuit, .093"
PF8	Pin, straight, flex circuit, .125"
PW34	Pin, straight, wire wrap [®] , .531"
PW40	Pin, straight, wire wrap [®] , .625"

TYPE CONTACTS/TERMINATIONS:

SAC	Socket, straight, solder cup (.035" I.D.)
SAD7	Socket, straight, dip solder, .109" x .027" dia
SAD9	Socket, straight, dip solder, .140" x .027" dia
SAD11	Socket, straight, dip solder, .172" x .027" dia
SAF3	Socket, straight, flex circuit, .050"
SAF6	Socket, straight, flex circuit, .093"
SAF9	Socket, straight, flex circuit, .140"
SAG7	Socket, straight, dip solder, .109" x .018" dia
SAG9	Socket, straight, dip solder, .140" x .018" dia
SAG11	Socket, straight, dip solder, .172" x .018" dia
SAP	Socket, straight, pin termination, .150" (connector saver)
SAW24	Socket, straight, wire wrap [®] , .375"
SAW40	Socket, straight, wire wrap [®] , .625"
SOR7	Socket, right angle, dip solder, .109" x .025" dia
SOR9	Socket, right angle, dip solder, .140" x .025" dia
SOR11	Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

- Jackset hardware determines image of connector. Must specify image with guide set hardware.
- Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WTAV10PD9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.
- Fixed jackset, long (JL) includes jackscrew or jacksocket, #2-56 nut, #2 flat washer & #2 lockwasher

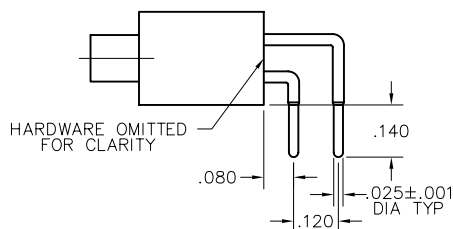
SY	Guide set
SY-#	Guide set, polarized
SYL	Guide set, long
SYL-#	Guide set, long, polarized
J	Fixed jackset
JL	Fixed jackset, long

SY	Guide set
SY-#	Guide set, polarized
SYL	Guide set, long
SYL-#	Guide set, long, polarized
JT	Turning jackset, .500"
JTA	Turning jackset, .200"
JTB	Hex turning jackset, .200"
JTC	Hex turning jackset, .500"
JTL	Turning jackset, long, .700"

OPTIONS

- Option Codes: Add to the end of the part number. Example: WTAV10PD9J-D01. Call factory for additional codes.
- 433 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section.
- 444 Contact position noted by dash number is left open (to mate with -443). See "Polarization" in Accessories section.
- B82 Termination face sealed against conformal coating
- D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).
- D54 Combine -B82 & -D01 options
- G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)

☒ = Option not RoHS compliant



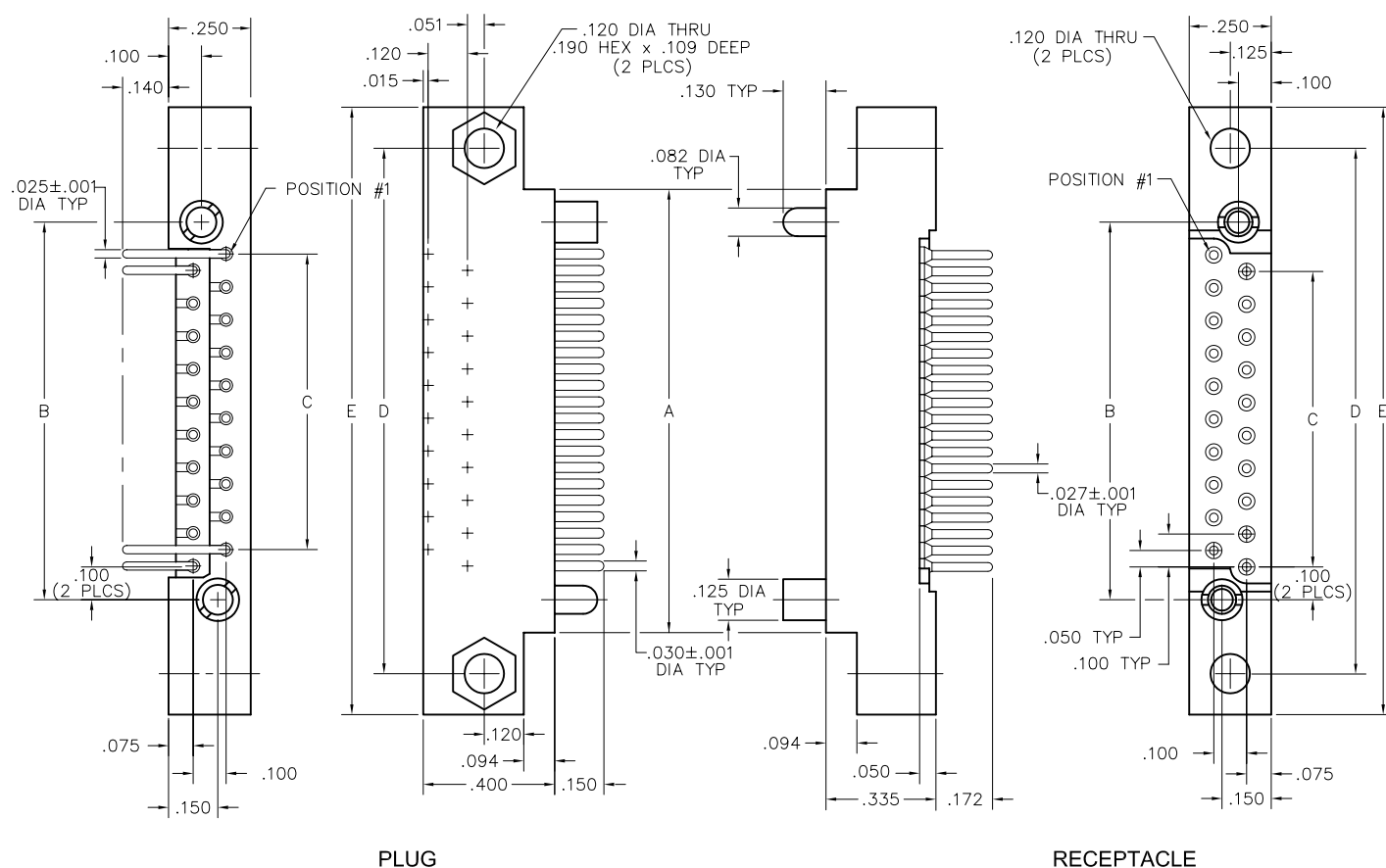
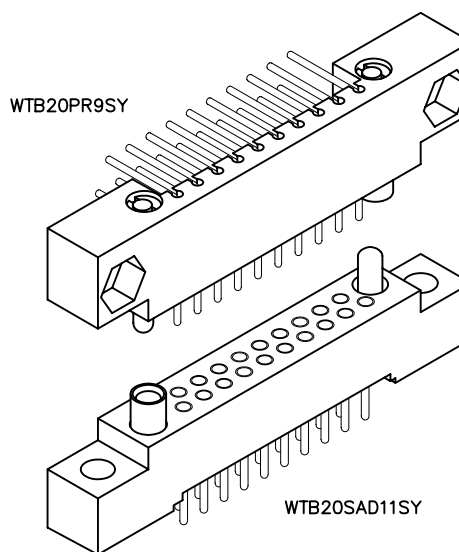
CONTACT OPTION: SOR9

2 • ROW PC Card to Board or Chassis

.100"

WTB - WTB

10 thru 70 Contacts



DIMENSIONS											
SIZE	A	B	C	D	E	SIZE	A	B	C	D	E
10	.850	.650	.400	1.100	1.350	44	2.550	2.350	2.100	2.800	3.050
14	1.050	.850	.600	1.300	1.550	50	2.850	2.650	2.400	3.100	3.350
20	1.350	1.150	.900	1.600	1.850	54	3.050	2.850	2.600	3.300	3.550
24	1.550	1.350	1.100	1.800	2.050	56	3.150	2.950	2.700	3.400	3.650
26	1.650	1.450	1.200	1.900	2.150	60	3.350	3.150	2.900	3.600	3.850
30	1.850	1.650	1.400	2.100	2.350	66	3.650	3.450	3.200	3.900	4.150
36	2.150	1.950	1.700	2.400	2.650	70	3.850	3.650	3.400	4.100	4.350
40	2.350	2.150	1.900	2.600	2.850						

PLUG: WTB 20 PR9 SY
 RECEPTACLE: WTB 20 SAD11 SY
 XXXX XX XXXXX XX

PLUG

RECEPTACLE

SERIES	
WTB	Plug, right angle, with mounting ears
WTB	Receptacle, straight, with mounting ears
WTB	Receptacle, right angle, with mounting ears

SIZE	
XX	Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)
XX	Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)

CONTACTS

- The contact type determines image of connector. Pin, right angle contacts are always plug image. Straight pin contacts or socket contacts are receptacle image. See page W-24 to switch the image.

TYPE CONTACTS/TERMINATIONS:

PRC	Pin, right angle, solder cup (.035" I.D.)
PR7	Pin, right angle, dip solder, .109" x .025" dia
PR9	Pin, right angle, dip solder, .140" x .025" dia
PR11	Pin, right angle, dip solder, .172" x .025" dia
PR13	Pin, right angle, dip solder, .203" x .025" dia
PR15	Pin, right angle, dip solder, .234" x .025" dia
PR23	Pin, right angle, dip solder, .359" x .025" dia
PR30	Pin, right angle, dip solder, .470" x .025" dia
PRW33	Pin, right angle, wire wrap®, .515"
PRW40	Pin, right angle, wire wrap®, .625"

TYPE CONTACTS/TERMINATIONS:

SAC	Socket, straight, solder cup (.035" I.D.)
SAD7	Socket, straight, dip solder, .109" x .027" dia
SAD9	Socket, straight, dip solder, .140" x .027" dia
SAD11	Socket, straight, dip solder, .172" x .027" dia
SAF3	Socket, straight, flex circuit, .050"
SAF6	Socket, straight, flex circuit, .093"
SAF9	Socket, straight, flex circuit, .140"
SAG7	Socket, straight, dip solder, .109" x .018" dia
SAG9	Socket, straight, dip solder, .140" x .018" dia
SAG11	Socket, straight, dip solder, .172" x .018" dia
SAW24	Socket, straight, wire wrap®, .375"
SAW40	Socket, straight, wire wrap®, .625"
SOR7	Socket, right angle, dip solder, .109" x .025" dia
SOR9	Socket, right angle, dip solder, .140" x .025" dia
SOR11	Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

- Plug facial seal gaskets; order separately or add "Q" in part number. Example: WTB10PR9QJ
 See "Gaskets" in Accessories section for instructions.

SY	Guide set
SY-#	Guide set, polarized
SYL	Guide set, long
SYL-#	Guide set, long, polarized
JT	Turning jackset, .435"
JTA	Turning jackset, .135"
JTB	Hex turning jackset, .135"
JTC	Hex turning jackset, .435"
JTL	Turning jackset, long, .635"

SY	Guide set
SY-#	Guide set, polarized
SYL	Guide set, long
SYL-#	Guide set, long, polarized
J	Fixed jackset
JL	Fixed jackset, long

OPTIONS

- Option Codes: Add to the end of the part number. Example: WTB10PR9SY342. Call factory for additional codes.
- 342 Remove mounting ears. (.250" each end)
- 443 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
- 515 Contact position noted by dash number is left open (to mate with -443). For right angle connectors only.
- 548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- B82 Termination face sealed against conformal coating
- D01 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free).
- D54 Combine -B82 & -D01 options
- G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)
- 413 Straight pin contacts in right angle plug molding with solder cup terminations extending .100" from face.

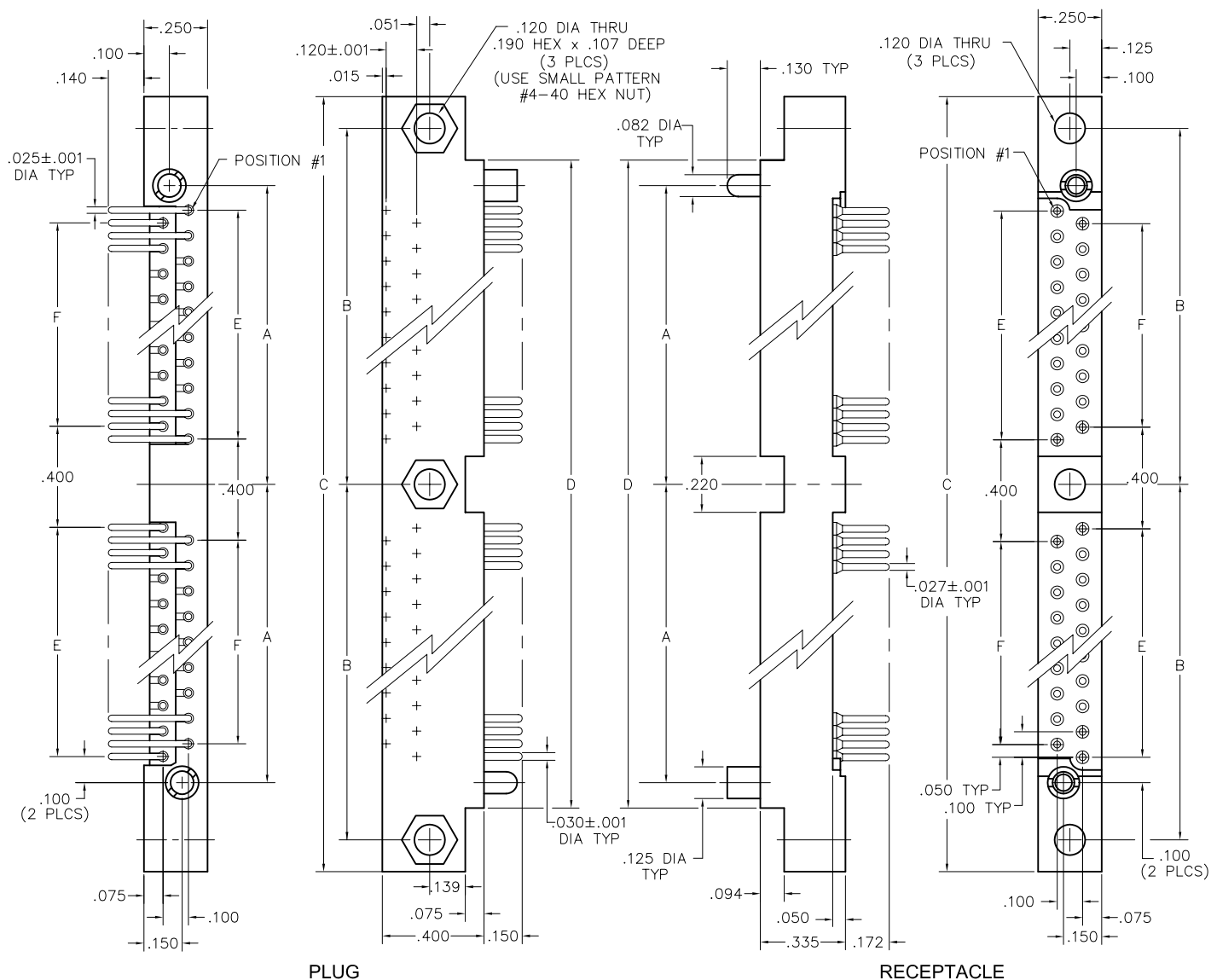
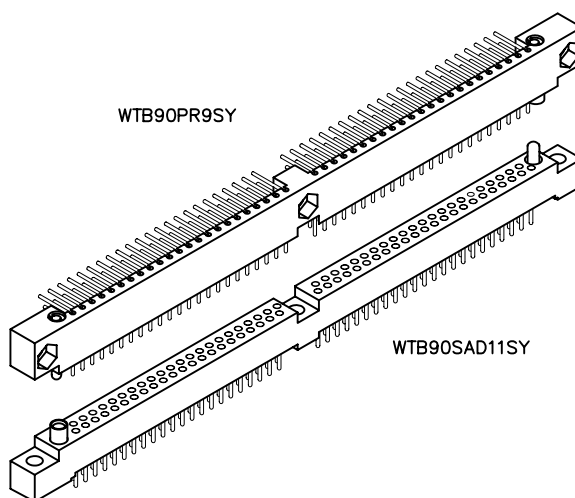
☒ = Option not RoHS compliant

2 • ROW PC Card to Board or Chassis

.100"

WTB - WTB

90, 100 & 120 Contacts



DIMENSIONS						
SIZE	A	B	C	D	E	F
90	2.475	2.700	5.650	5.150	2.200	2.100
100	2.725	2.950	6.150	5.650	2.400	2.400
120	3.225	3.450	7.150	6.650	2.900	2.900

PLUG: WTB 90 PR9 SY
RECEPTACLE: WTB 90 SAD11 SY
XXXX XX XXXXX XX

PLUG

RECEPTACLE

SERIES	
WTB	Plug, right angle, with mounting ears
WTB	Receptacle, straight, with mounting ears
WTB	Receptacle, right angle, with mounting ears
SIZE	
XX	Number of contacts (90, 100, or 120)
XX	Number of contacts (90, 100, or 120)

CONTACTS

- The contact type determines image of connector. Pin, right angle contacts are always plug image. Straight pin contacts or socket contacts are receptacle image. See page W-24 to switch the image.

TYPE CONTACTS/TERMINATIONS:	
PRC	Pin, right angle, solder cup (.035" I.D.)
PR7	Pin, right angle, dip solder, .109" x .025" dia
PR9	Pin, right angle, dip solder, .140" x .025" dia
PR11	Pin, right angle, dip solder, .172" x .025" dia
PR15	Pin, right angle, dip solder, .234" x .025" dia
PRW33	Pin, right angle, wire wrap [®] , .515"
PRW40	Pin, right angle, wire wrap [®] , .625"

TYPE CONTACTS/TERMINATIONS:	
SAC	Socket, straight, solder cup (.035" I.D.)
SAD7	Socket, straight, dip solder, .109" x .027" dia
SAD9	Socket, straight, dip solder, .140" x .027" dia
SAD11	Socket, straight, dip solder, .172" x .027" dia
SAF3	Socket, straight, flex circuit, .050"
SAF6	Socket, straight, flex circuit, .093"
SAF9	Socket, straight, flex circuit, .140"
SAG7	Socket, straight, dip solder, .109" x .018" dia
SAG9	Socket, straight, dip solder, .140" x .018" dia
SAG11	Socket, straight, dip solder, .172" x .018" dia
SAW24	Socket, straight, wire wrap [®] , .375"
SAW40	Socket, straight, wire wrap [®] , .625"
SOR7	Socket, right angle, dip solder, .109" x .025" dia
SOR9	Socket, right angle, dip solder, .140" x .025" dia
SOR11	Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

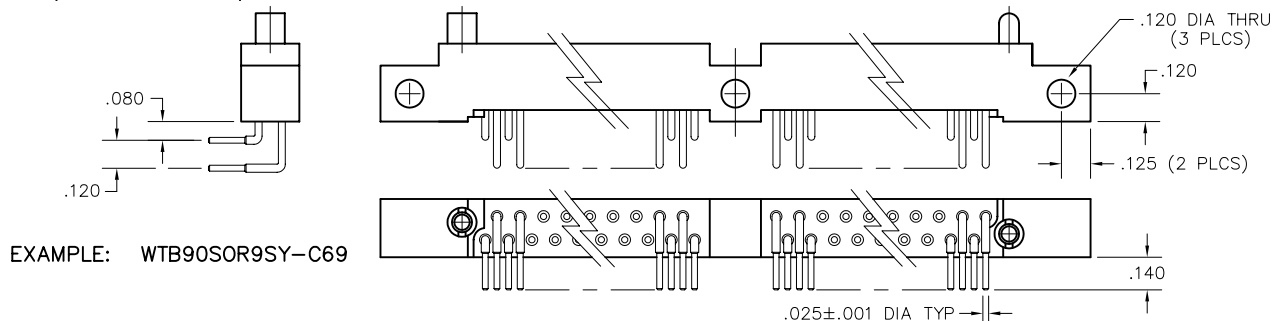
- Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WTB90PR9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.

SY	Guide set	SY	Guide set
SY-#	Guide set, polarized	SY-#	Guide set, polarized
SYL	Guide set, long	SYL	Guide set, long
JT	Turning jackset, .435"	J	Fixed jackset
JTA	Turning jackset, .135"	JL	Fixed jackset, long
JTB	Hex turning jackset, .135"		
JTC	Turning jackset, .435"		
JTL	Turning jackset, long, .635"		

OPTIONS

- Option Codes: Add to the end of the part number. Example: WTB90PR9SY-D01. Call factory for additional codes.
- 342 Remove mounting ears, (.250" each end)
- 443 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
- 515 Contact position noted by dash number is left open (to mate with -443). For right angle connectors only.
- 548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- B82 Termination face sealed against conformal coating
- D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).
- D54 Combine -B82 & -D01 options
- G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)
- 413 Straight pin contacts in right angle plug molding, with solder cup terminals extending .100" beyond molding.

☒ = Option not RoHS compliant





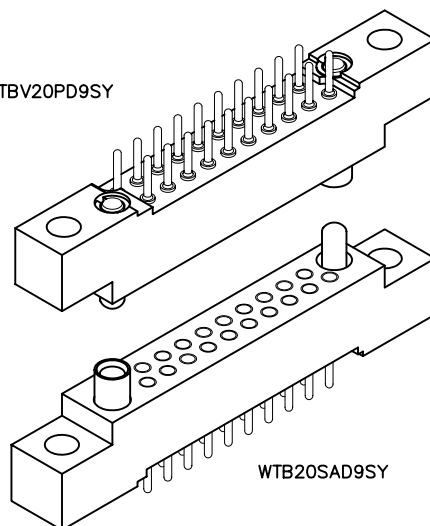
2 • ROW Sandwich Boards

.100"

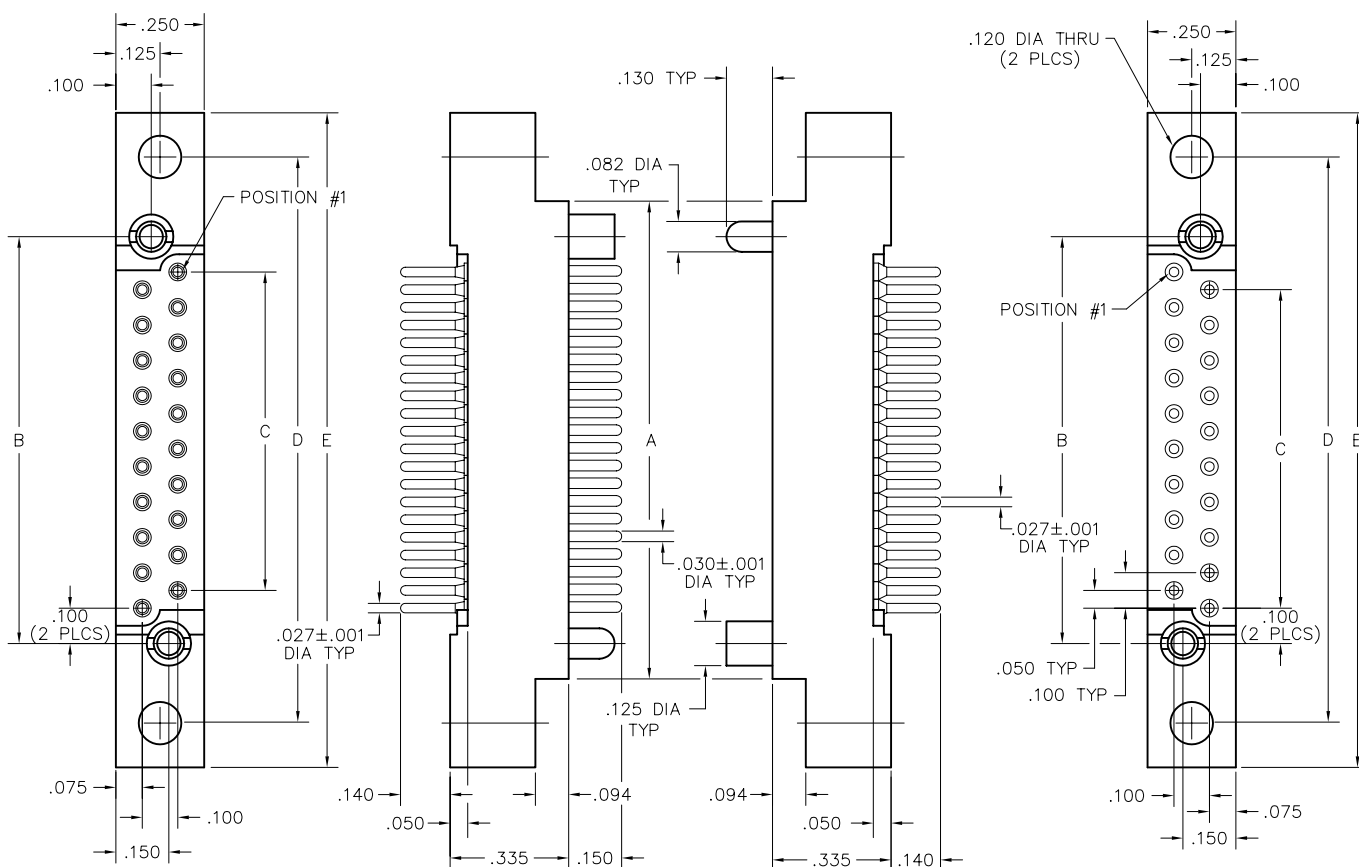
WTBV - WTB

10 thru 70 Contacts

WTBV20PD9SY



WTB20SAD9SY



DIMENSIONS											
SIZE	A	B	C	D	E	SIZE	A	B	C	D	E
10	.850	.650	.400	1.100	1.350	44	2.550	2.350	2.100	2.800	3.050
14	1.050	.850	.600	1.300	1.550	50	2.850	2.650	2.400	3.100	3.350
20	1.350	1.150	.900	1.600	1.850	54	3.050	2.850	2.600	3.300	3.550
24	1.550	1.350	1.100	1.800	2.050	56	3.150	2.950	2.700	3.400	3.650
26	1.650	1.450	1.200	1.900	2.150	60	3.350	3.150	2.900	3.600	3.850
30	1.850	1.650	1.400	2.100	2.350	66	3.650	3.450	3.200	3.900	4.150
36	2.150	1.950	1.700	2.400	2.650	70	3.850	3.650	3.400	4.100	4.350
40	2.350	2.150	1.900	2.600	2.850						

PLUG: WTBV 20 PD9 SY
 RECEPTACLE: WTB 20 SAD9 SY
 XXXX XX XXXX XX

PLUG

RECEPTACLE

SERIES	
WTBV Plug, straight, with mounting ears	WTB Receptacle, straight, with mounting ears
	WTB Receptacle, right angle, with mounting ears

SIZE	
XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)	XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)

CONTACTS

- Pin or socket contacts can be used in either plug or receptacle.
- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

TYPE CONTACTS/TERMINATIONS:

PC	Pin, straight, solder cup (.035" I.D.)
PD7	Pin, straight, dip solder, .109" x .027" dia
PD9	Pin, straight, dip solder, .140" x .027" dia
PD11	Pin, straight, dip solder, .172" x .027" dia
PD13	Pin, straight, dip solder, .203" x .027" dia
PF3	Pin, straight, flex circuit, .050"
PF6	Pin, straight, flex circuit, .093"
PF8	Pin, straight, flex circuit, .125"
PW34	Pin, straight, wire wrap [®] , .531"
PW40	Pin, straight, wire wrap [®] , .625"

TYPE CONTACTS/TERMINATIONS:

SAC	Socket, straight, solder cup (.035" I.D.)
SAD7	Socket, straight, dip solder, .109" x .027" dia
SAD9	Socket, straight, dip solder, .140" x .027" dia
SAD11	Socket, straight, dip solder, .172" x .027" dia
SAF3	Socket, straight, flex circuit, .050"
SAF6	Socket, straight, flex circuit, .093"
SAF9	Socket, straight, flex circuit, .140"
SAG7	Socket, straight, dip solder, .109" x .018" dia
SAG9	Socket, straight, dip solder, .140" x .018" dia
SAG11	Socket, straight, dip solder, .172" x .018" dia
SAP	Socket, straight, pin termination, .150" (connector saver)
SAW24	Socket, straight, wire wrap [®] , .375"
SAW40	Socket, straight, wire wrap [®] , .625"
SOR7	Socket, right angle, dip solder, .109" x .025" dia
SOR9	Socket, right angle, dip solder, .140" x .025" dia
SOR11	Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

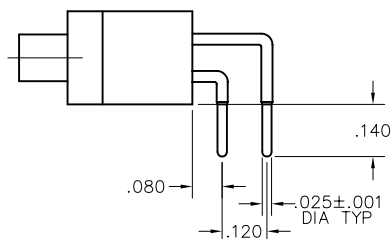
- Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WTBV10PD9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.

SY	Guide set	SY	Guide set
SY-#	Guide set, polarized	SY-#	Guide set, polarized
SYL	Guide set, long	SYL	Guide set, long
JT	Turning jackset, .500"	J	Fixed jackset
JTA	Turning jackset, .200"	JL	Fixed jackset, long
JTB	Hex turning jackset, .200"		
JTC	Hex turning jackset, .500"		
JTL	Turning jackset, long, .700"		

OPTIONS

- Option Codes: Add to the end of the part number. Example: WTBV20PD9SY-D01. Call factory for additional codes.
- B82 Termination face sealed against conformal coating
- D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).
- D54 Combine -B82 & -D01 options
- G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)

☒ = Option not RoHS compliant



CONTACT OPTION: SOR9

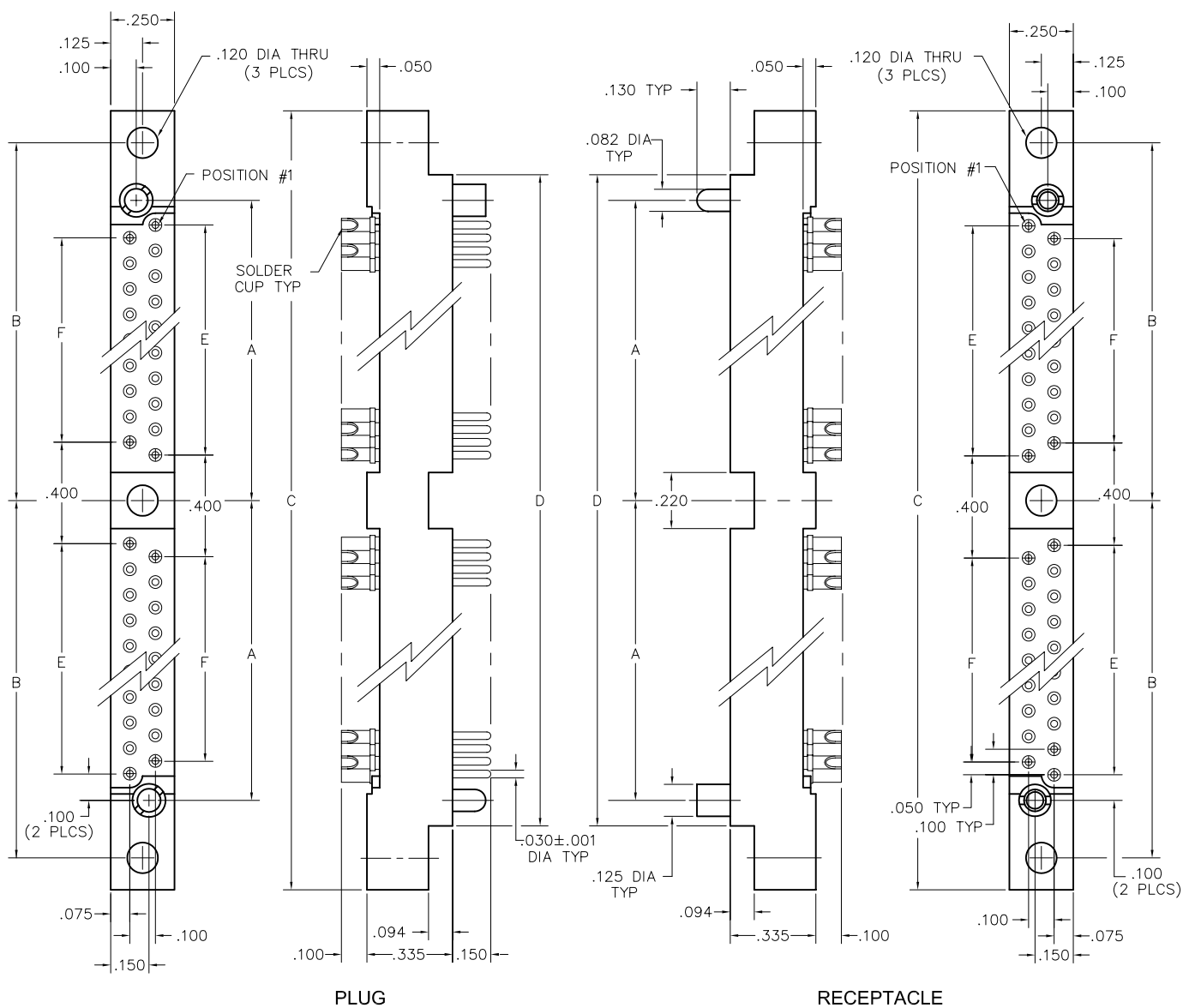
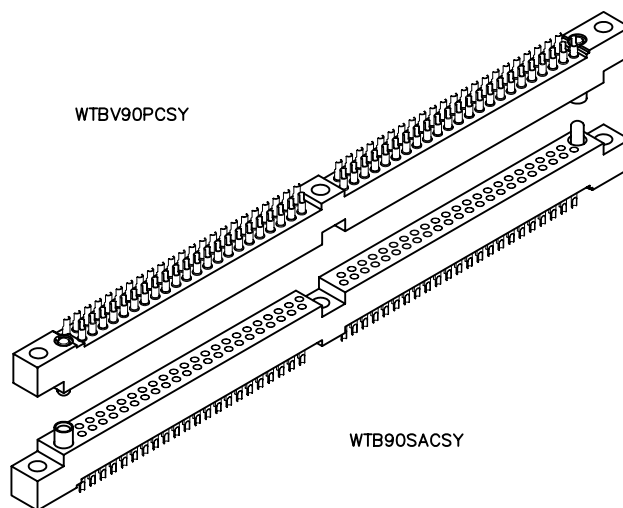
2 • ROW

Sandwich Boards

.100"

WTBV - WTB

90 & 100 Contacts



DIMENSIONS						
SIZE	A	B	C	D	E	F
90	2.475	2.700	5.650	5.150	2.200	2.100
100	2.725	2.950	6.150	5.650	2.400	2.400

PLUG: WTBV 90 PC SY
 RECEPTACLE: WTB 90 SAC SY
 XXXX XX XXX XX

PLUG

RECEPTACLE

SERIES	
WTBV Plug, straight, with mounting ears	WTB Receptacle, straight, with mounting ears WTB Receptacle, right angle, with mounting ears

SIZE	
XX Number of contacts (90 or 100)	XX Number of contacts (90 or 100)

CONTACTS

- Pin or socket contacts can be used in either plug or receptacle.
- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

TYPE CONTACTS/TERMINATIONS:

PC	Pin, straight, solder cup (.035" I.D.)
PD7	Pin, straight, dip solder, .109" x .027" dia
PD9	Pin, straight, dip solder, .140" x .027" dia
PD11	Pin, straight, dip solder, .172" x .027" dia
PD13	Pin, straight, dip solder, .203" x .027" dia
PF3	Pin, straight, flex circuit, .050"
PF6	Pin, straight, flex circuit, .093"
PF8	Pin, straight, flex circuit, .125"
PW34	Pin, straight, wire wrap [®] , .531"
PW40	Pin, straight, wire wrap [®] , .625"

TYPE CONTACTS/TERMINATIONS:

SAC	Socket, straight, solder cup (.035" I.D.)
SAD7	Socket, straight, dip solder, .109" x .027" dia
SAD9	Socket, straight, dip solder, .140" x .027" dia
SAD11	Socket, straight, dip solder, .172" x .027" dia
SAF3	Socket, straight, flex circuit, .050"
SAF6	Socket, straight, flex circuit, .093"
SAF9	Socket, straight, flex circuit, .140"
SAG7	Socket, straight, dip solder, .109" x .018" dia
SAG9	Socket, straight, dip solder, .140" x .018" dia
SAG11	Socket, straight, dip solder, .172" x .018" dia
SAP	Socket, straight, pin termination, .150" (connector saver)
SAW24	Socket, straight, wire wrap [®] , .375"
SAW40	Socket, straight, wire wrap [®] , .625"
SOR7	Socket, right angle, dip solder, .109" x .025" dia
SOR9	Socket, right angle, dip solder, .140" x .025" dia
SOR11	Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

- Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WTBV90PD9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.

SY	Guide set	SY	Guide set
SY-#	Guide set, polarized	SY-#	Guide set, polarized
SYL	Guide set, long	SYL	Guide set, long
JT	Turning jackset, .500"	J	Fixed jackset
JTA	Turning jackset, .200"	JL	Fixed jackset, long
JTB	Hex turning jackset, .200"		
JTC	Hex turning jackset, .500"		
JTL	Turning jackset, long, .700"		

OPTIONS

- Option Codes: Add to the end of the part number. Example: WTBV100PD9SY-D01. Call factory for additional codes.
- B82 Termination face sealed against conformal coating
- 342 Remove mounting ears (.250" each end)
- D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).
- D54 Combine -B82 & -D01 options
- G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)

☒ = Option not RoHS compliant



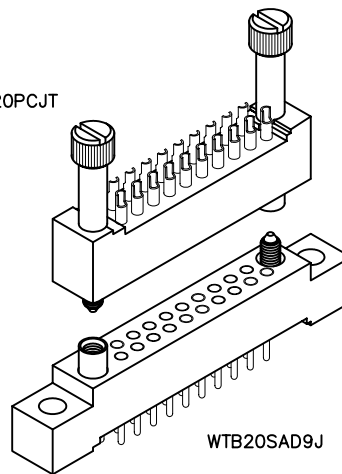
2 • ROW Cable to Board or PC Card

.100"

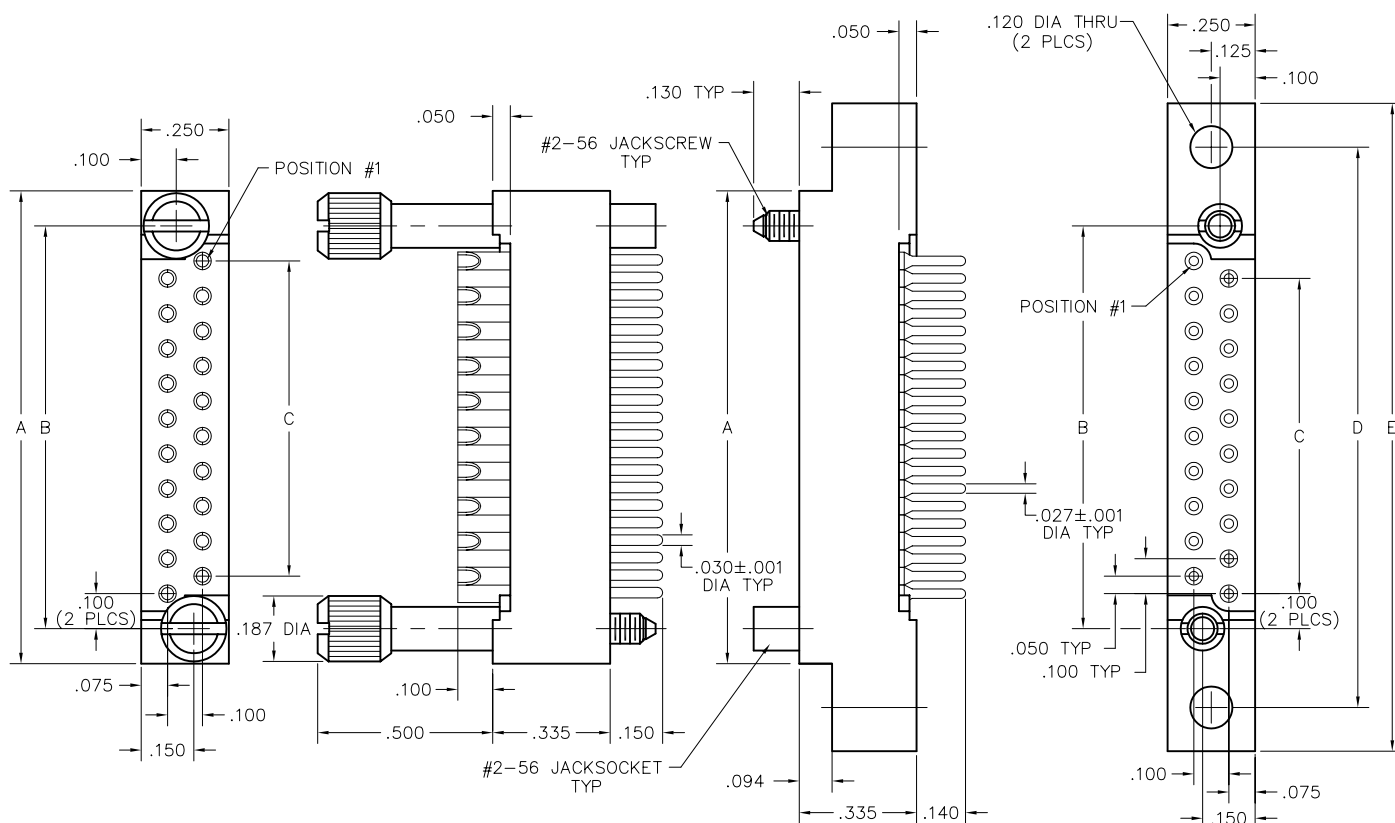
WTA - WTB

10 thru 70 Contacts

WTA20PCJT



WTB20SAD9J



PLUG

RECEPTACLE

DIMENSIONS											
SIZE	A	B	C	D	E	SIZE	A	B	C	D	E
10	.850	.650	.400	1.100	1.350	44	2.550	2.350	2.100	2.800	3.050
14	1.050	.850	.600	1.300	1.550	50	2.850	2.650	2.400	3.100	3.350
20	1.350	1.150	.900	1.600	1.850	54	3.050	2.850	2.600	3.300	3.550
24	1.550	1.350	1.100	1.800	2.050	56	3.150	2.950	2.700	3.400	3.650
26	1.650	1.450	1.200	1.900	2.150	60	3.350	3.150	2.900	3.600	3.850
30	1.850	1.650	1.400	2.100	2.350	66	3.650	3.450	3.200	3.900	4.150
36	2.150	1.950	1.700	2.400	2.650	70	3.850	3.650	3.400	4.100	4.350
40	2.350	2.150	1.900	2.600	2.850						

PLUG: WTA 20 PC JT
 RECEPTACLE: WTB 20 SAD9 J
 XXX XX XXXX XX

PLUG		RECEPTACLE	
SERIES			
WTA	Plug, straight, without mounting ears	WTB	Receptacle, straight, with mounting ears
		WTB	Receptacle, right angle, with mounting ears
SIZE			
XX	Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)	XX	Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)
CONTACTS			
- Pin or socket contacts can be used in either plug or receptacle. - WTA connectors - jackset hardware determines the image. Must specify image with guide set hardware. See page W-17. - WTB connectors - contacts determine the image. Right angle pin contacts are always plug image, and straight pin or sockets are receptacle image. - When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact. - When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.			
TYPE CONTACTS/TERMINATIONS: PC Pin, straight, solder cup (.035" I.D.) PD7 Pin, straight, dip solder, .109" x .027" dia PD9 Pin, straight, dip solder, .140" x .027" dia PD11 Pin, straight, dip solder, .172" x .027" dia PD13 Pin, straight, dip solder, .203" x .027" dia PF3 Pin, straight, flex circuit, .050" PF6 Pin, straight, flex circuit, .093" PF8 Pin, straight, flex circuit, .125" PW34 Pin, straight, wire wrap®, .531" PW40 Pin, straight, wire wrap®, .625"		TYPE CONTACTS/TERMINATIONS: SAC Socket, straight, solder cup (.035" I.D.) SAD7 Socket, straight, dip solder, .109" x .027" dia SAD9 Socket, straight, dip solder, .140" x .027" dia SAD11 Socket, straight, dip solder, .172" x .027" dia SAF3 Socket, straight, flex circuit, .050" SAF6 Socket, straight, flex circuit, .093" SAF9 Socket, straight, flex circuit, .140" SAG7 Socket, straight, dip solder, .109" x .018" dia SAG9 Socket, straight, dip solder, .140" x .018" dia SAG11 Socket, straight, dip solder, .172" x .018" dia SAP Socket, straight, pin termination, .150" (connector saver) SAW24 Socket, straight, wire wrap®, .375" SAW40 Socket, straight, wire wrap®, .625" SOR7 Socket, right angle, dip solder, .109" x .025" dia SOR9 Socket, right angle, dip solder, .140" x .025" dia SOR11 Socket, right angle, dip solder, .172" x .025" dia	
HARDWARE			
Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WTA10PD9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.			
JT	Turning jackset, .500"	J	Fixed jackset
JTA	Turning jackset, .200"	JL	Fixed jackset, long
JTB	Hex turning jackset, .200"		
JTC	Hex turning jackset, .500"		
JTL	Turning jackset, long, .700"		
OPTIONS			
Option Codes: Add to the end of the part number. Example: WTA10SAD9J-D01. Call factory for additional codes.			
-B82 Termination face sealed against conformal coating -342 Remove mounting ears (.250" each end) -D01 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with 63/37 or 60/40 solder. ☒ -P39 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free). -D54 Combine -B82 & -D01 options -G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)			
☒ = Option not RoHS compliant			



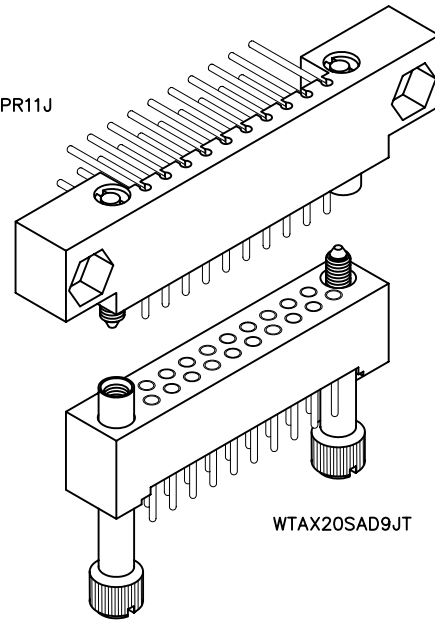
2 • ROW PC Card to Board or PC Card

.100"

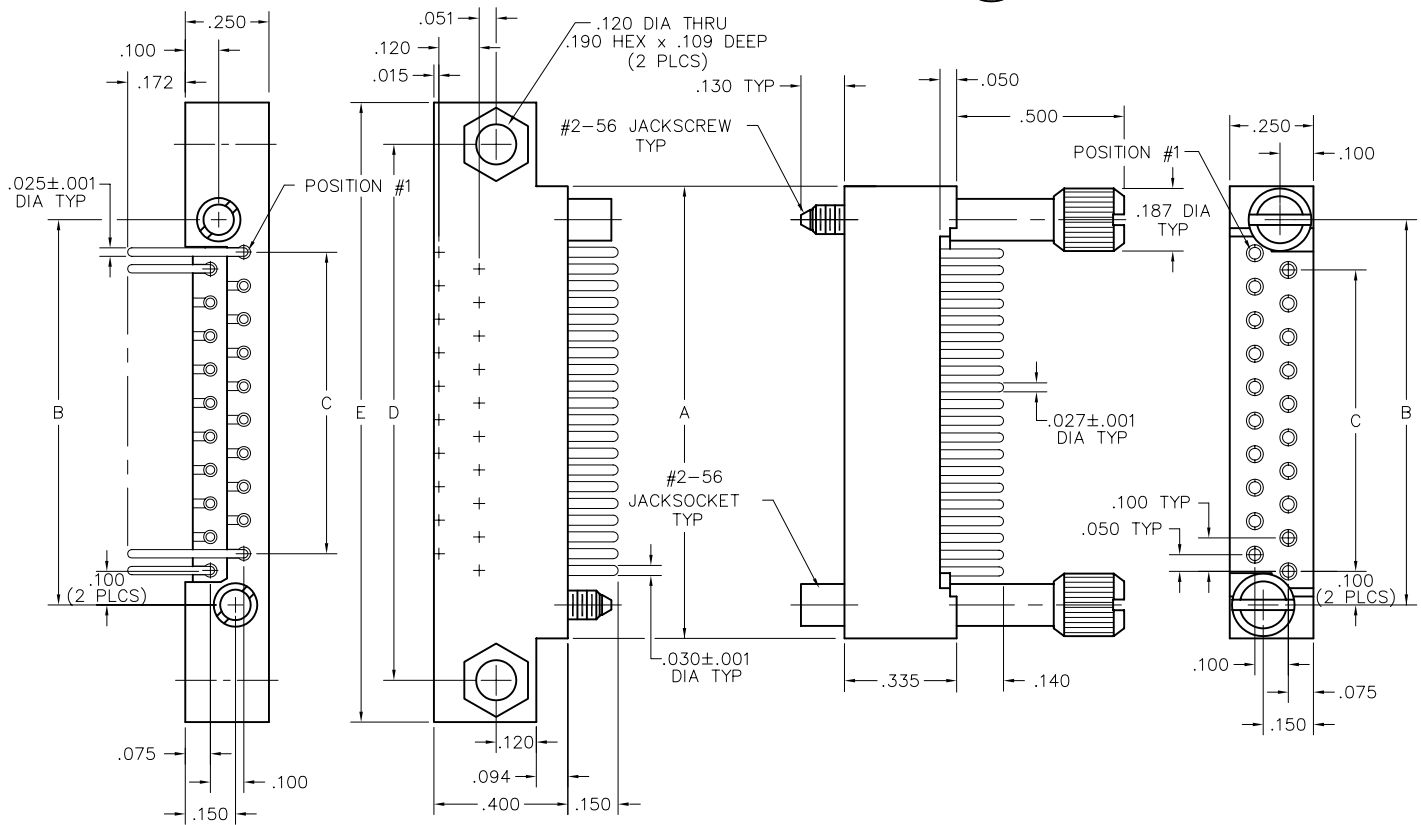
WTB-WTAX

10 thru 70 Contacts

WTB20PR11J



WTAX20SAD9JT



PLUG

RECEPTACLE

DIMENSIONS											
SIZE	A	B	C	D	E	SIZE	A	B	C	D	E
10	.850	.650	.400	1.100	1.350	44	2.550	2.350	2.100	2.800	3.050
14	1.050	.850	.600	1.300	1.550	50	2.850	2.650	2.400	3.100	3.350
20	1.350	1.150	.900	1.600	1.850	54	3.050	2.850	2.600	3.300	3.550
24	1.550	1.350	1.100	1.800	2.050	56	3.150	2.950	2.700	3.400	3.650
26	1.650	1.450	1.200	1.900	2.150	60	3.350	3.150	2.900	3.600	3.850
30	1.850	1.650	1.400	2.100	2.350	66	3.650	3.450	3.200	3.900	4.150
36	2.150	1.950	1.700	2.400	2.650	70	3.850	3.650	3.400	4.100	4.350
40	2.350	2.150	1.900	2.600	2.850						

PLUG: WTB 20 PR11 J
 RECEPTACLE: WTAX 20 SAD9 JT
 XXXX XX XXXX XX

PLUG

RECEPTACLE

SERIES	
WTB Plug, right angle, with mounting ears	WTAX Receptacle, straight, without mounting ears
SIZE	
XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)	XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)

CONTACTS

- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
 - When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.
- | TYPE CONTACTS/TERMINATIONS: | TYPE CONTACTS/TERMINATIONS: |
|--|--|
| PR7 Pin, right angle, dip solder, .109" x .025" dia | SAC Socket, straight, solder cup (.035" I.D.) |
| PR9 Pin, right angle, dip solder, .140" x .025" dia | SAD7 Socket, straight, dip solder, .109" x .027" dia |
| PR11 Pin, right angle, dip solder, .172" x .025" dia | SAD9 Socket, straight, dip solder, .140" x .027" dia |
| PR15 Pin, right angle, dip solder, .234" x .025" dia | SAD11 Socket, straight, dip solder, .172" x .027" dia |
| PRC Pin, right angle, solder cup (.035" I.D.) | SAD15 Socket, straight, dip solder, .234" x .027" dia |
| PRW33 Pin, right angle, wire wrap®, .515" | SAF3 Socket, straight, flex circuit, .050" |
| PRW40 Pin, right angle, wire wrap®, .625" | SAF6 Socket, straight, flex circuit, .093" |
| | SAG7 Socket, straight, dip solder, .109" x .018" dia |
| | SAG9 Socket, straight, dip solder, .140" x .018" dia |
| | SAG11 Socket, straight, dip solder, .172" x .018" dia |
| | SAP Socket, straight, pin termination, .150" (connector saver) |
| | SAW24 Socket, straight, wire wrap®, .375" |
| | SAW40 Socket, straight, wire wrap®, .625" |
| | SOR7 Socket, right angle, dip solder, .109" x .025" dia |
| | SOR9 Socket, right angle, dip solder, .140" x .025" dia |
| | SOR11 Socket, right angle, dip solder, .172" x .025" dia |

HARDWARE

- Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WTB20PR11QJ.
 See "Gaskets" and "Hoods" in Accessories section for instructions.
- | | |
|----------------------------------|----------------------------------|
| SY Guide set | SY Guide set |
| SY-# Guide set, polarized | SY-# Guide set, polarized |
| J Fixed jackset | SYL Guide set, long |
| JT Turning jackset, .435" | SYL-# Guide set, long, polarized |
| JTA Turning jackset, .135" | J Fixed jackset |
| JTB Hex turning jackset, .135" | JL Fixed jackset, long |
| JTC Hex turning jackset, .435" | JT Turning jackset, .500" |
| JTL Turning jackset, long, .635" | JTA Turning jackset, .200" |
| | JTB Hex turning jackset, .200" |
| | JTC Hex turning jackset, .500" |
| | JTL Turning jackset, long, .700" |

OPTIONS

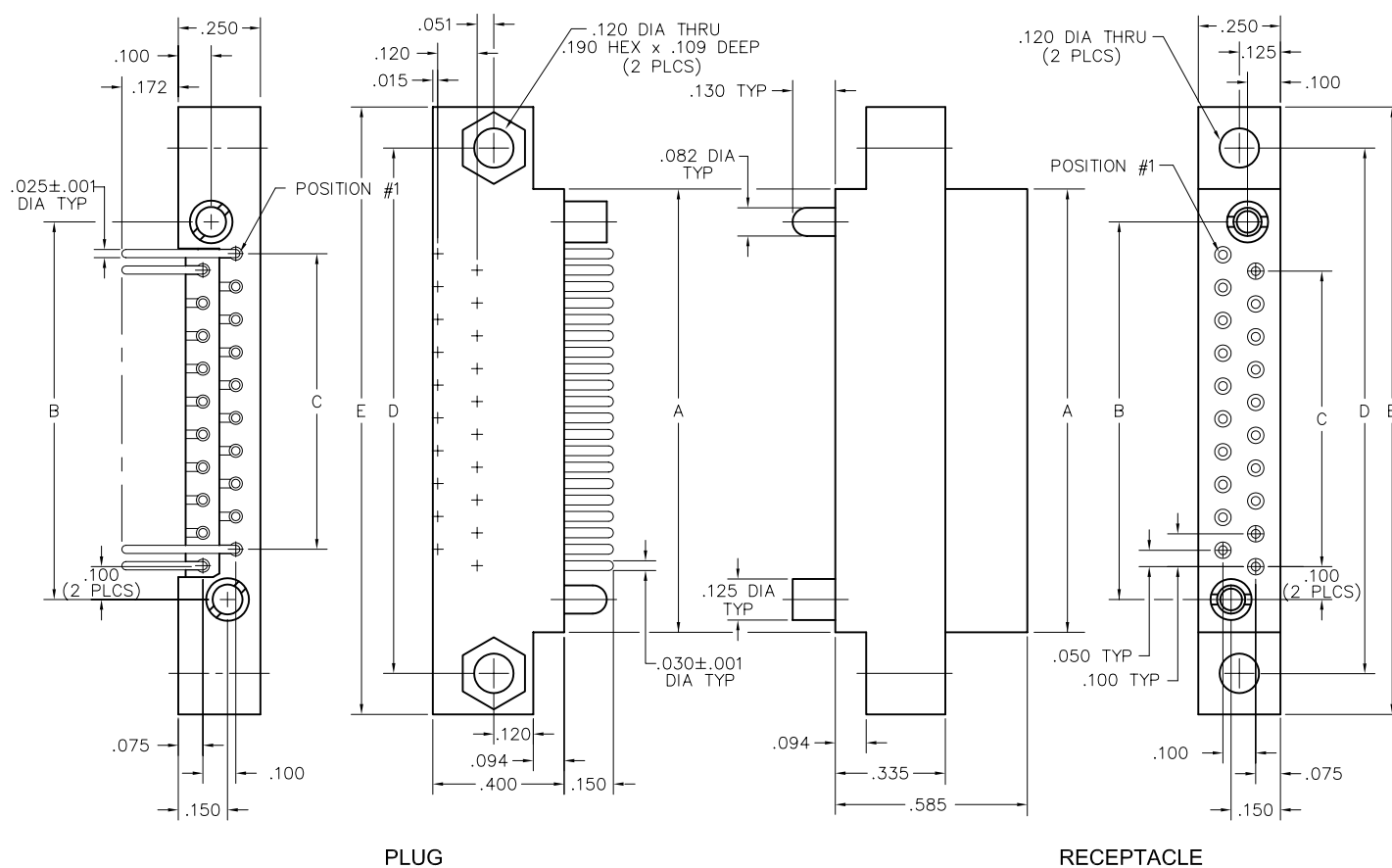
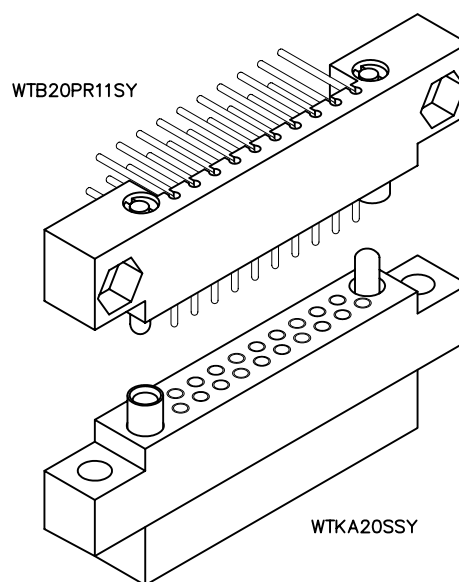
- Option Codes: Add to the end of the part number. Example: WTB10SAD9J-D01. Call factory for additional codes.
 - 342 Remove mounting ears (.250" each end)
 - 548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
 - D01 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with 63/37 or 60/40 solder. ☒
 - P39 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free).
 - D54 Combine -B82 & -D01 options
 - G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)
 - B82 Termination face sealed against conformal coating. Receptacle connector only.
- ☒ = Option not RoHS compliant

2 • ROW PC Card to Chassis

.100"

WTB - WTKA

10 thru 70 Contacts



DIMENSIONS											
SIZE	A	B	C	D	E	SIZE	A	B	C	D	E
10	.850	.650	.400	1.100	1.350	44	2.550	2.350	2.100	2.800	3.050
14	1.050	.850	.600	1.300	1.550	50	2.850	2.650	2.400	3.100	3.350
20	1.350	1.150	.900	1.600	1.850	54	3.050	2.850	2.600	3.300	3.550
24	1.550	1.350	1.100	1.800	2.050	56	3.150	2.950	2.700	3.400	3.650
26	1.650	1.450	1.200	1.900	2.150	60	3.350	3.150	2.900	3.600	3.850
30	1.850	1.650	1.400	2.100	2.350	66	3.650	3.450	3.200	3.900	4.150
36	2.150	1.950	1.700	2.400	2.650	70	3.850	3.650	3.400	4.100	4.350
40	2.350	2.150	1.900	2.600	2.850						

PLUG: WTB 20 PR11 SY
 RECEPTACLE: WTKA 20 S SY
 XXXX XX XXXX XX

PLUG

RECEPTACLE

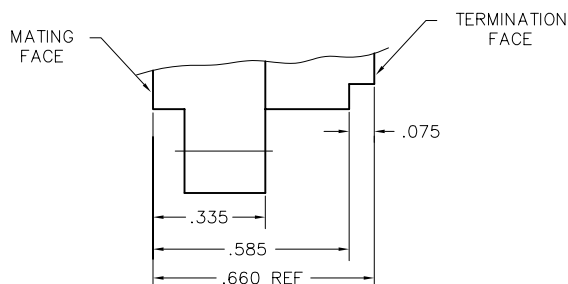
SERIES	
WTB Plug, right angle, with mounting ears	WTKA Receptacle, straight, crimp removable, with mounting ears
• WTKA and WTDXA connectors will mate with WTA, WTAV, WTB, WTBV connectors. "A" means contacts are included.	

SIZE	
XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)	XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)

CONTACTS	
- The use of gaskets is not recommended with crimp socket contacts. - WTKA** includes full compliment of WTK2222 (Socket or Pin) crimp removable contacts packaged with connectors. See "Contacts" in Accessories section to order separately. - When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.	
TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:
PR7 Pin, right angle, dip solder, .109" x .025" dia	S Socket, straight, crimp removable, 22 AWG
PR9 Pin, right angle, dip solder, .140" x .025" dia	SA Same as above
PR11 Pin, right angle, dip solder, .172" x .025" dia	P Pin, straight, crimp removable, 22 AWG
PRW40 Pin, right angle, wire wrap [®] , .625"	

HARDWARE	
SY Guide set	SY Guide set
SY-# Guide set, polarized	SY-# Guide set, polarized
J Fixed jackset	J Fixed jackset
JT Turning jackset, .435"	JT Turning jackset, .500"
JTA Turning jackset, .135"	JTA Turning jackset, .200"
JTB Hex turning jackset, .135"	JTB Hex turning jackset, .200"
JTC Hex turning jackset, .435"	JTC Hex turning jackset, .500"
JTL Turning jackset, long, .635"	JTL Turning jackset, long, .700"

OPTIONS	
• Option Codes: Add to the end of the part number. Example: WTKA10SSY-C45. Call factory for additional codes.	
-443	Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
-444	Contact position noted by dash number is left open (to mate with -443).
-478	Drill mating side hole diameter designated by dash number.
-515	Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
-548	Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
-A53	Socket, straight, crimp removable, 20 AWG
-C45	Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.
-F68	Combine -C45 and -515 special codes.



DETAIL A

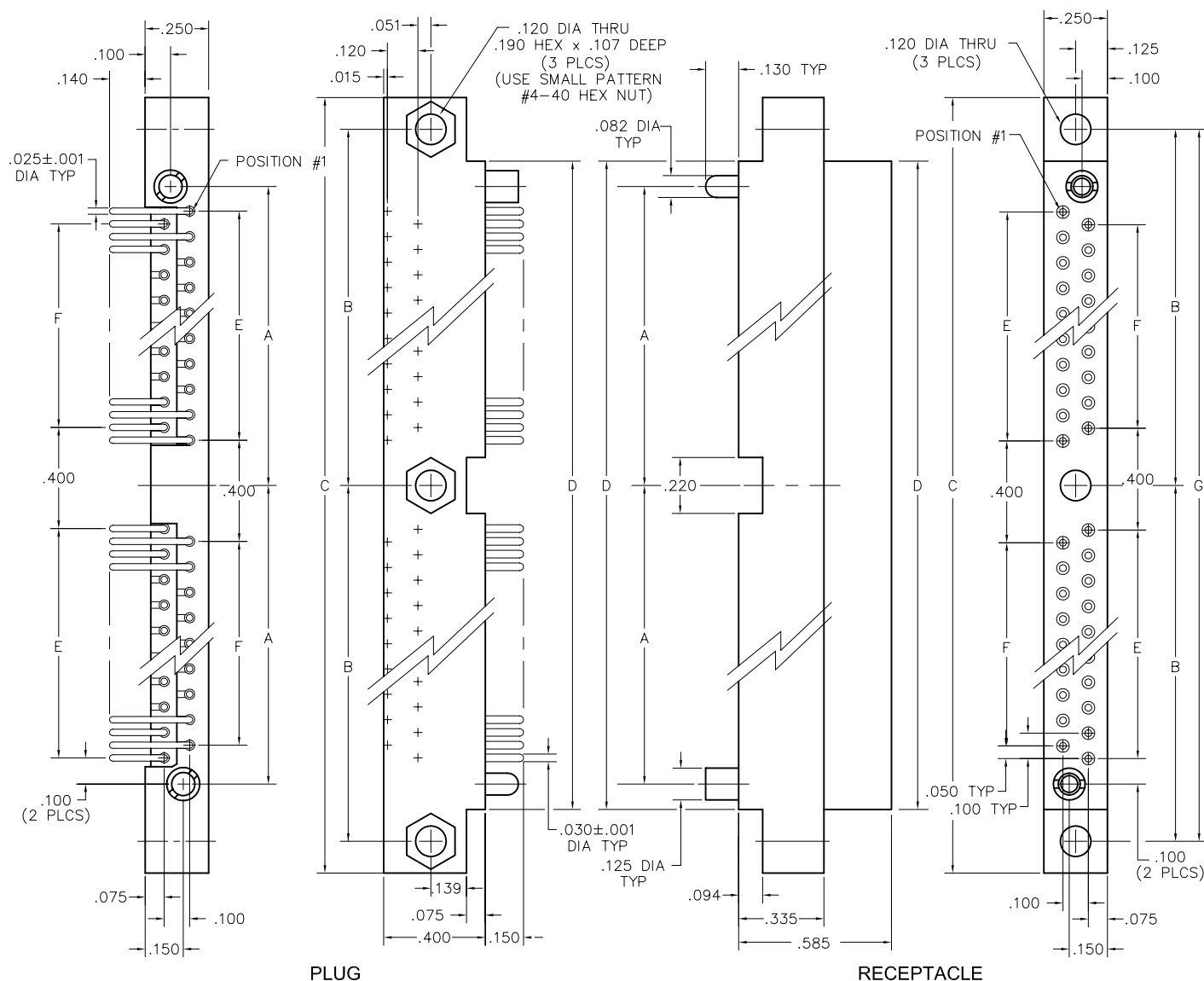
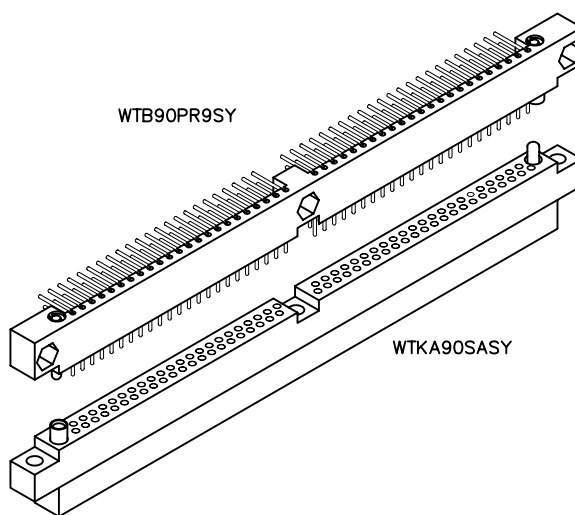
2 • ROW

PC Card to Chassis

.100"

WTB - WTKA

90 & 120 Contacts



DIMENSIONS							
SIZE	A	B	C	D	E	F	G
90	2.475	2.700	5.650	5.150	2.200	2.100	5.400
120	3.225	3.450	7.150	6.650	2.900	2.900	6.900

PLUG: WTB 90 PR9 SY
RECEPTACLE: WTKA 90 SA SY
XXXX XX XXX XX

PLUG

RECEPTACLE

SERIES

WTB Plug, right angle, with mounting ears

WTKA Receptacle, straight, crimp removable, with mounting ears

- WTKA and WTDXA connectors will mate with WTA, WTAV, WTB, WTBV connectors. "A" means contacts are included.

SIZE

XX Number of contacts (90 or 120)

XX Number of contacts (90 or 120)

CONTACTS

- The use of gaskets is not recommended with crimp socket contacts.
- WTKA** includes full compliment of WTK2222 (Socket or Pin) crimp removable contacts packaged with connectors. See "Contacts" in Accessories section to order separately.
- When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

TYPE CONTACTS/TERMINATIONS:

PR7 Pin, right angle, dip solder, .109" x .025" dia
PR9 Pin, right angle, dip solder, .140" x .025" dia
PR11 Pin, right angle, dip solder, .172" x .025" dia
PRW40 Pin, right angle, wire wrap®, .625"

TYPE CONTACTS/TERMINATIONS:

S Socket, straight, crimp removable, 22 AWG
SA Same as above
P Pin, straight, crimp removable, 22 AWG

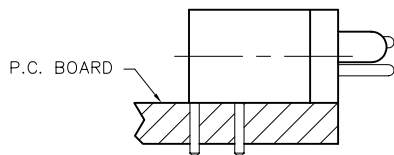
HARDWARE

SY Guide set
SY-# Guide set, polarized
J Fixed jackset
JT Turning jackset, .435"
JTA Turning jackset, .135"
JTB Hex turning jackset, .135"
JTC Hex turning jackset, .435"
JTL Turning jackset, long, .635"

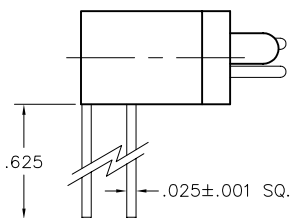
SY Guide set
SY-# Guide set, polarized
J Fixed jackset
JT Turning jackset, .500"
JTA Turning jackset, .200"
JTB Hex turning jackset, .200"
JTC Hex turning jackset, .500"
JTL Turning jackset, long, .700"

OPTIONS

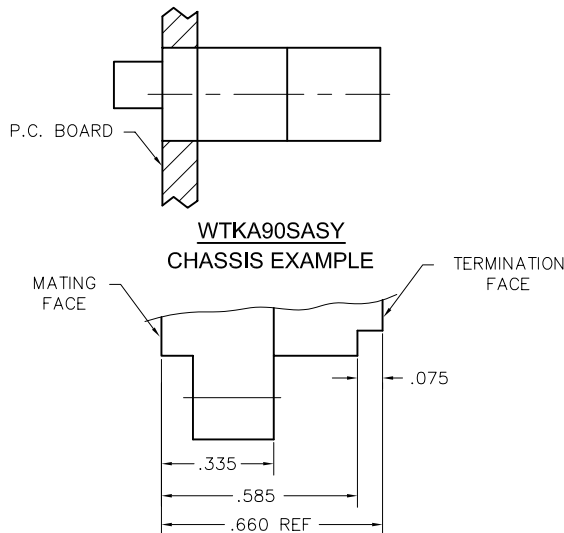
- Option Codes: Add to the end of the part number. Example: WTKA10SSSY-C45. Call factory for additional codes.
- 443 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
- 444 Contact position noted by dash number is left open (to mate with -443). Right angle only.
- 478 Drill mating side hole diameter designated by dash number (crimp only).
- 515 Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
- 548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- A53 Socket, straight, crimp removable, 20 AWG
- C45 Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.
- F68 Combine -C45 and -515 special codes.



WTB90PR9SY
P.C. BOARD EXAMPLE



WTB90PRW40SY
WIRE WRAP EXAMPLE



DETAIL A

2 • ROW

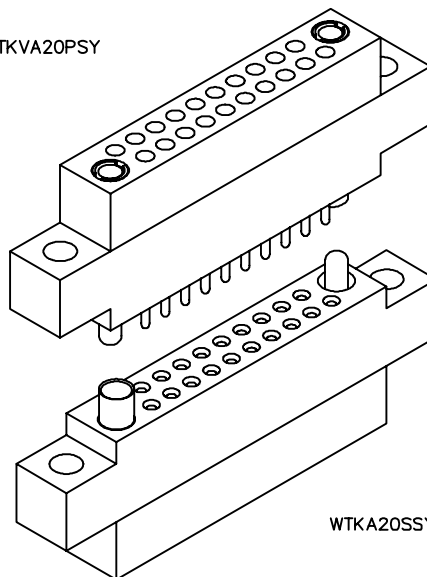
Chassis to Chassis

.100"

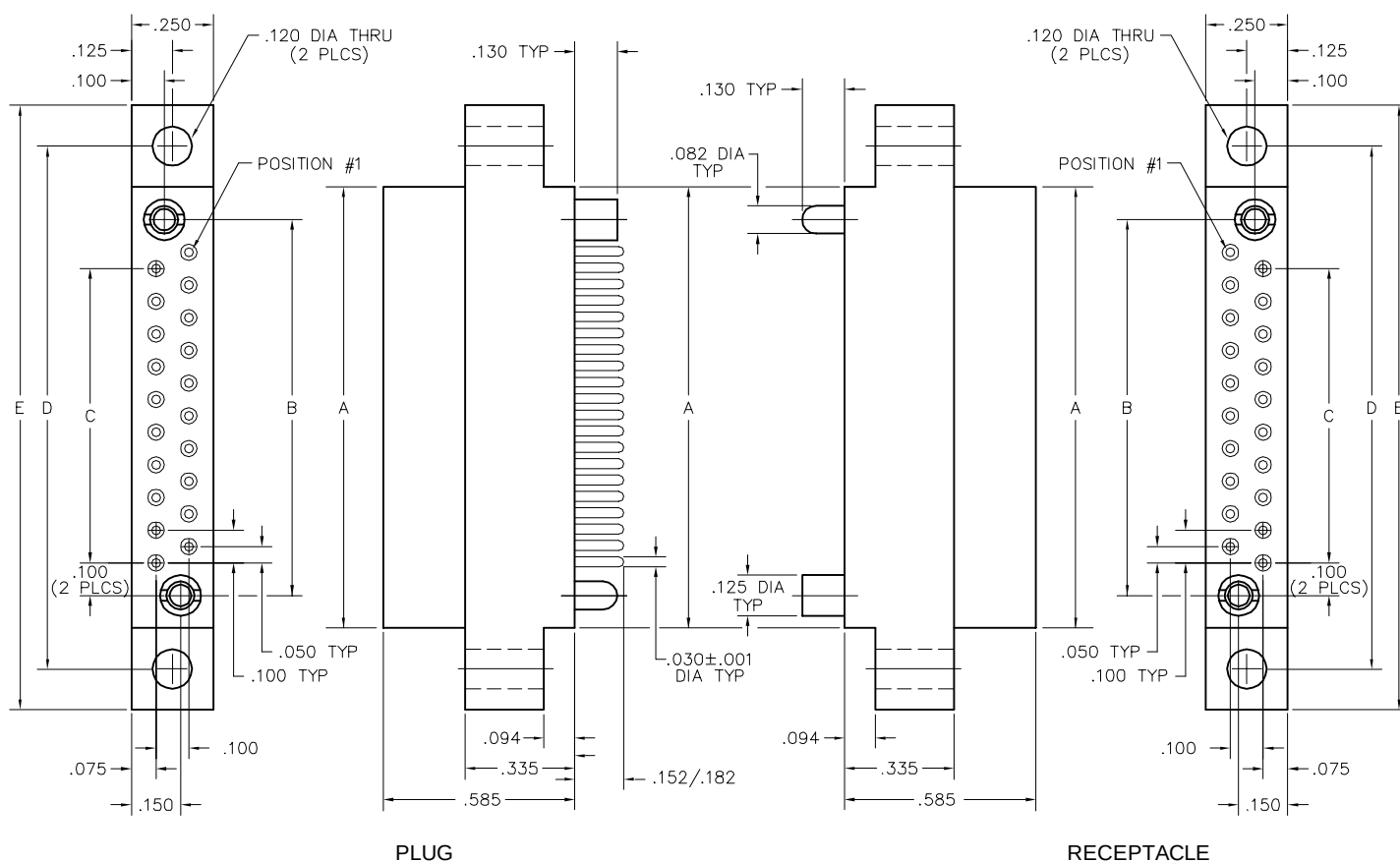
WTKVA - WTKA

10 thru 70 Contacts

WTKVA20PSY



WTKA20SSY



DIMENSIONS											
SIZE	A	B	C	D	E	SIZE	A	B	C	D	E
10	.850	.650	.400	1.100	1.350	44	2.550	2.350	2.100	2.800	3.050
14	1.050	.850	.600	1.300	1.550	50	2.850	2.650	2.400	3.100	3.350
20	1.350	1.150	.900	1.600	1.850	54	3.050	2.850	2.600	3.300	3.550
24	1.550	1.350	1.100	1.800	2.050	56	3.150	2.950	2.700	3.400	3.650
26	1.650	1.450	1.200	1.900	2.150	60	3.350	3.150	2.900	3.600	3.850
30	1.850	1.650	1.400	2.100	2.350	66	3.650	3.450	3.200	3.900	4.150
36	2.150	1.950	1.700	2.400	2.650	70	3.850	3.650	3.400	4.100	4.350
40	2.350	2.150	1.900	2.600	2.850						

PLUG: WTKVA20 P SY
 RECEPTACLE: WTKA 20 S SY
 XXXX XX XXXX XX

PLUG

RECEPTACLE

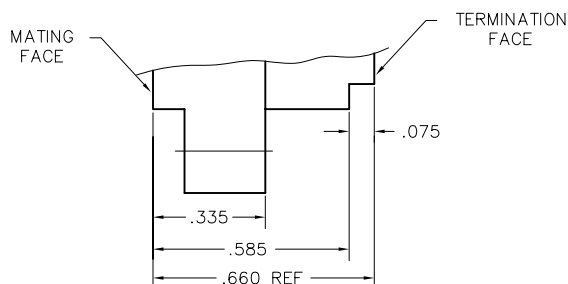
SERIES	
WTKVA Plug, straight, crimp removable, with mounting ears	WTKA Receptacle, straight, crimp removable, with mounting ears
WTKVA and WTKA connectors will mate with WTA, WTAV, WTB, WTBV connectors. "A" means contacts are included.	

SIZE	
XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)	XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)

CONTACTS	
- The use of gaskets is not recommended with crimp connectors. - WTKVA** and WTKA includes full compliment of WTK2222 (Socket or Pin) crimp removable contacts packaged with connectors. See "Contacts" in Accessories section to order separately. - When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.	
TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:
P Pin, straight, crimp removable, 22 AWG	S Socket, straight, crimp removable, 22 AWG
S Socket, straight, crimp removable, 22 AWG	SA Same as above
SA Same as above	P Pin, straight, crimp removable, 22 AWG

HARDWARE	
SY Guide set	SY Guide set
SY-# Guide set, polarized	SY-# Guide set, polarized
J Fixed jackset	J Fixed jackset
JT Turning jackset, .435"	JT Turning jackset, .500"
JTA Turning jackset, .135"	JTA Turning jackset, .200"
JTB Hex turning jackset, .135"	JTB Hex turning jackset, .200"
JTC Hex turning jackset, .435"	JTC Hex turning jackset, .500"
JTL Turning jackset, long, .635"	JTL Turning jackset, long, .700"

OPTIONS	
Option Codes: Add to the end of the part number. Example: WTKA10SSY-C45. Call factory for additional codes.	
-443	Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section.
-444	Contact position noted by dash number is left open (to mate with -443).
-478	Drill mating side hole diameter designated by dash number.
-515	Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section.
-A53	20 AWG, straight, crimp removable contact, pin or socket.
-C45	Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.
-F68	Combine -C45 and -515 special codes.



DETAIL A



2 • ROW

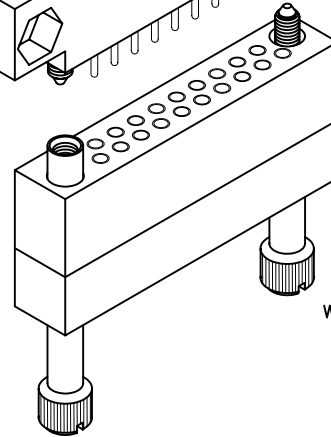
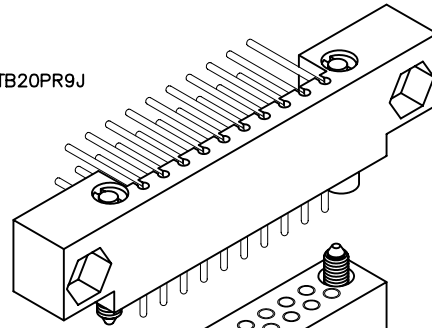
PC Card to
Board

.100"

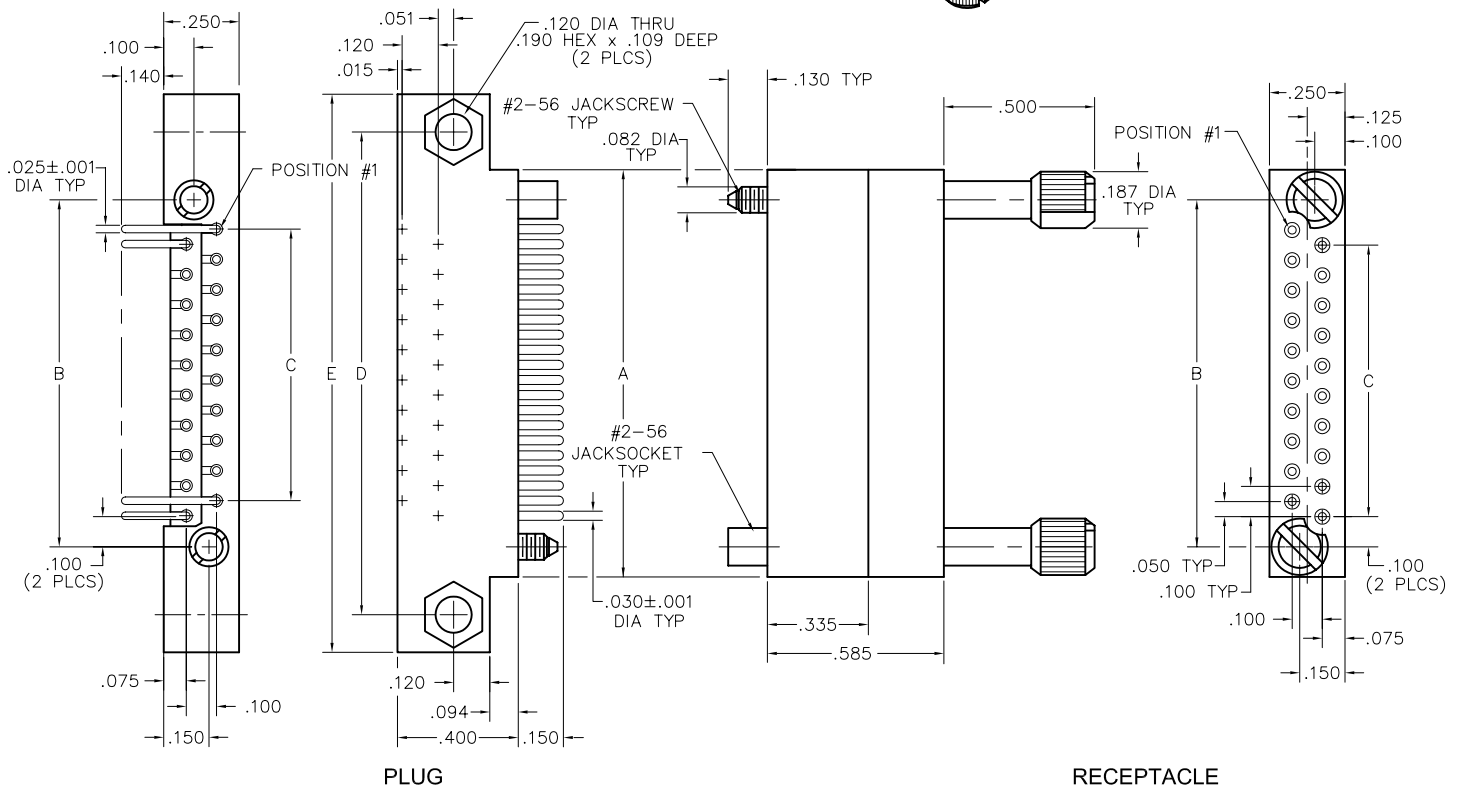
WTB - WTDXA

10 thru 70 Contacts

WTB20PR9J



WTDXA20SJT



DIMENSIONS											
SIZE	A	B	C	D	E	SIZE	A	B	C	D	E
10	.850	.650	.400	1.100	1.350	44	2.550	2.350	2.100	2.800	3.050
14	1.050	.850	.600	1.300	1.550	50	2.850	2.650	2.400	3.100	3.350
20	1.350	1.150	.900	1.600	1.850	54	3.050	2.850	2.600	3.300	3.550
24	1.550	1.350	1.100	1.800	2.050	56	3.150	2.950	2.700	3.400	3.650
26	1.650	1.450	1.200	1.900	2.150	60	3.350	3.150	2.900	3.600	3.850
30	1.850	1.650	1.400	2.100	2.350	66	3.650	3.450	3.200	3.900	4.150
36	2.150	1.950	1.700	2.400	2.650	70	3.850	3.650	3.400	4.100	4.350
40	2.350	2.150	1.900	2.600	2.850						

PLUG: WTB 20 PR9 J
 RECEPTACLE: WTDXA 20 S JT
 XXXXX XX XXX XX

PLUG

RECEPTACLE

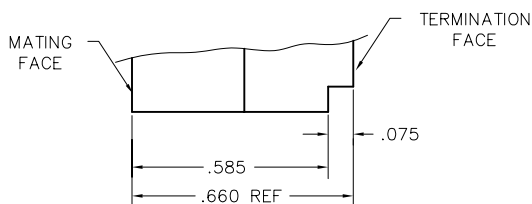
SERIES	
WTB Plug, right angle, with mounting ears	WTDXA Receptacle, straight, crimp removable, without mounting ears
• WTKA and WTDXA connectors will mate with WTA, WTAV, WTB, WTBV connectors. "A" means contacts are included.	

SIZE	
XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)	XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)

CONTACTS	
- The use of gaskets is not recommended with crimp socket contacts. - WTKA** includes full compliment of WTK2222 (Socket or Pin) crimp removable contacts packaged with connectors. See "Contacts" in Accessories section to order separately. - When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.	
TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:
PR7 Pin, right angle, dip solder, .109" x .025" dia	S Socket, straight, crimp removable, 22 AWG
PR9 Pin, right angle, dip solder, .140" x .025" dia	SA Same as above
PR11 Pin, right angle, dip solder, .172" x .025" dia	P Pin, straight, crimp removable, 22 AWG
PRW40 Pin, right angle, wire wrap®, .625"	

HARDWARE	
SY Guide set	SY Guide set
SY-# Guide set, polarized	SY-# Guide set, polarized
J Fixed jackset	J Fixed jackset
JT Turning jackset, .435"	JT Turning jackset, .500"
JTA Turning jackset, .135"	JTA Turning jackset, .200"
JTB Hex turning jackset, .135"	JTB Hex turning jackset, .200"
JTC Hex turning jackset, .435"	JTC Hex turning jackset, .500"
JTL Turning jackset, long, .635"	JTL Turning jackset, long, .700"

OPTIONS	
• Option Codes: Add to the end of the part number. Example: WTKA10SSY-C45. Call factory for additional codes.	
-443	Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
-444	Contact position noted by dash number is left open (to mate with -443). Right angle only.
-478	Drill mating side hole diameter designated by dash number.
-515	Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
-548	Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
-A53	Socket, straight, crimp removable, 20 AWG
-C45	Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.
-F68	Combine -C45 and -515 special codes.



DETAIL A

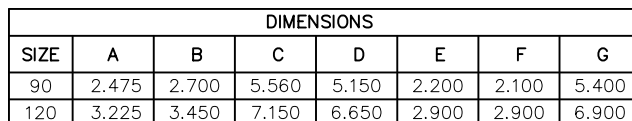


.100"

WTB - WTDXA

WTB90PR9SY

WTDXA90SASY



PLUG: WTB 90 PR9 SY
RECEPTACLE: WTDXA 90 SA SY
XXXXX XX XXX XX

PLUG

RECEPTACLE

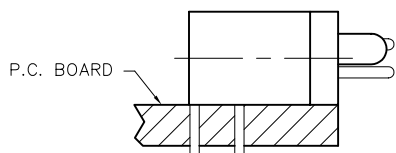
SERIES	
WTB Plug, right angle, with mounting ears	WTDXA Receptacle, straight, crimp removable, without mounting ears
• WTKA and WTDXA connectors will mate with WTA, WTAV, WTB, WTBV connectors. "A" means contacts are included.	

SIZE	
XX Number of contacts (90 or 120)	XX Number of contacts (90 or 120)

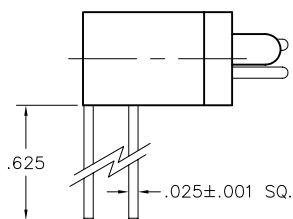
CONTACTS	
- The use of gaskets is not recommended with crimp socket contacts. - WTKA** includes full compliment of WTK2222 (Socket or Pin) crimp removable contacts packaged with connectors. See "Contacts" in Accessories section to order separately. - When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.	
TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:
PR7 Pin, right angle, dip solder, .109" x .025" dia	S Socket, straight, crimp removable, 22 AWG
PR9 Pin, right angle, dip solder, .140" x .025" dia	SA Same as above
PR11 Pin, right angle, dip solder, .172" x .025" dia	P Pin, straight, crimp removable, 22 AWG
PRW40 Pin, right angle, wire wrap®, .625"	

HARDWARE	
SY Guide set	SY Guide set
SY-# Guide set, polarized	SY-# Guide set, polarized
J Fixed jackset	J Fixed jackset
JT Turning jackset, .435"	JT Turning jackset, .500"
JTA Turning jackset, .135"	JTA Turning jackset, .200"
JTB Hex turning jackset, .135"	JTB Hex turning jackset, .200"
JTC Hex turning jackset, .435"	JTC Hex turning jackset, .500"
JTL Turning jackset, long, .635"	JTL Turning jackset, long, .700"

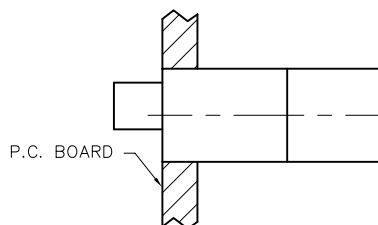
OPTIONS	
• Option Codes: Add to the end of the part number. Example: WTDXA90SSY-C45. Call factory for additional codes.	
-443	Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
-444	Contact position noted by dash number is left open (to mate with -443). Right angle only.
-478	Drill mating side hole diameter designated by dash number (crimp only).
-515	Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section. Receptacle connector only.
-548	Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
-A53	Socket, straight, crimp removable, 20 AWG
-C45	Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.
-F68	Combine -C45 and -515 special codes.



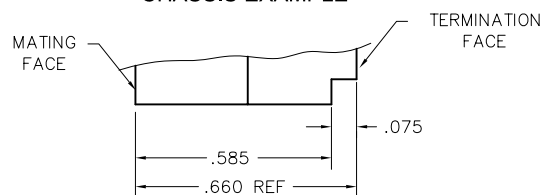
WTB90PR9SY
P.C. BOARD EXAMPLE



WTB90PRW40SY
WIRE WRAP EXAMPLE



WTDXA90SASY
CHASSIS EXAMPLE



DETAIL A



2 • ROW

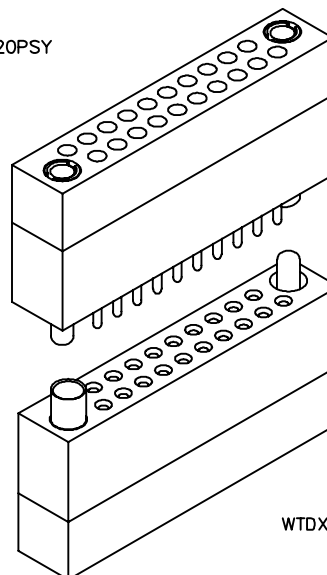
Chassis to Chassis

.100"

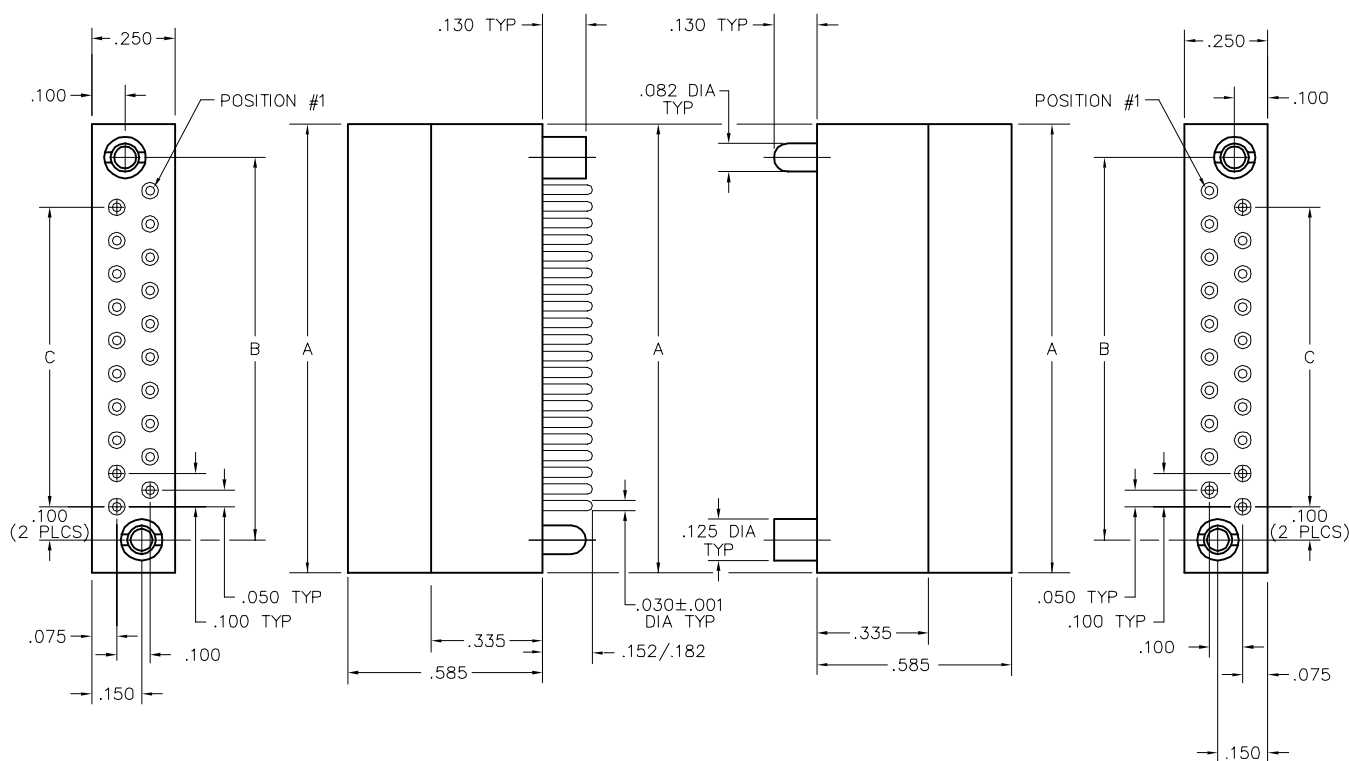
WTDVA - WTDXA

10 thru 70 Contacts

WTDVA20PSY



WTDXA20SSY



PLUG

RECEPTACLE

DIMENSIONS							
SIZE	A	B	C	SIZE	A	B	C
10	.850	.650	.400	44	2.550	2.350	2.100
14	1.050	.850	.600	50	2.850	2.650	2.400
20	1.350	1.150	.900	54	3.050	2.850	2.600
24	1.550	1.350	1.100	56	3.150	2.950	2.700
26	1.650	1.450	1.200	60	3.350	3.150	2.900
30	1.850	1.650	1.400	66	3.650	3.450	3.200
36	2.150	1.950	1.700	70	3.850	3.650	3.400
40	2.350	2.150	1.900				

PLUG: WTDVA20 P SY
 RECEPTACLE: WTDXA20 S SY
 XXXX XX XXXX XX

PLUG

RECEPTACLE

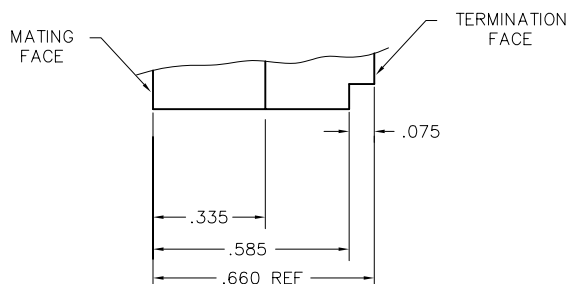
SERIES	
WTDVA Plug, straight, crimp removable, without mounting ears	WTDXA Receptacle, straight, crimp removable, without mounting ears
• WTDVA and WTDXA connectors will mate with WTA, WTAV, WTB, WTBV connectors. "A" means contacts are included.	

SIZE	
XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)	XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)

CONTACTS	
- The use of gaskets is not recommended with crimp connectors. - WTDVA** and WTDXA includes full compliment of WTK2222 (Socket or Pin) crimp removable contacts packaged with connectors. See "Contacts" in Accessories section to order separately. - When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.	
TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:
P Pin, straight, crimp removable, 22 AWG	S Socket, straight, crimp removable, 22 AWG
S Socket, straight, crimp removable, 22 AWG	SA Same as above
SA Same as above	P Pin, straight, crimp removable, 22 AWG

HARDWARE	
SY Guide set	SY Guide set
SY-# Guide set, polarized	SY-# Guide set, polarized
J Fixed jackset	J Fixed jackset
JT Turning jackset, .435"	JT Turning jackset, .500"
JTA Turning jackset, .135"	JTA Turning jackset, .200"
JTB Hex turning jackset, .135"	JTB Hex turning jackset, .200"
JTC Hex turning jackset, .435"	JTC Hex turning jackset, .500"
JTL Turning jackset, long, .635"	JTL Turning jackset, long, .700"

OPTIONS	
Option Codes: Add to the end of the part number. Example: WTDXA10SSY-C45. Call factory for additional codes.	
-443	Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section.
-444	Contact position noted by dash number is left open (to mate with -443).
-478	Drill mating side hole diameter designated by dash number.
-515	Polarizing pin installed in contact position noted by dash number. See "Polarization" in Accessories section.
-A53	20 AWG, straight, crimp removable contact, pin or socket.
-C45	Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.
-F68	Combine -C45 and -515 special codes.



DETAIL A

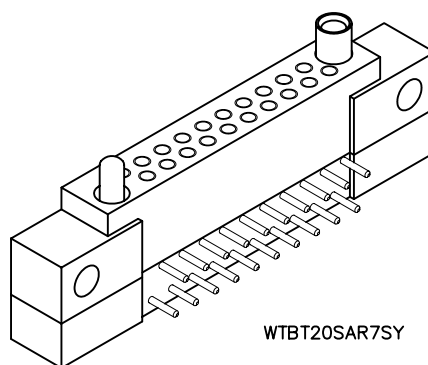


2 • ROW Extender Board Connector*

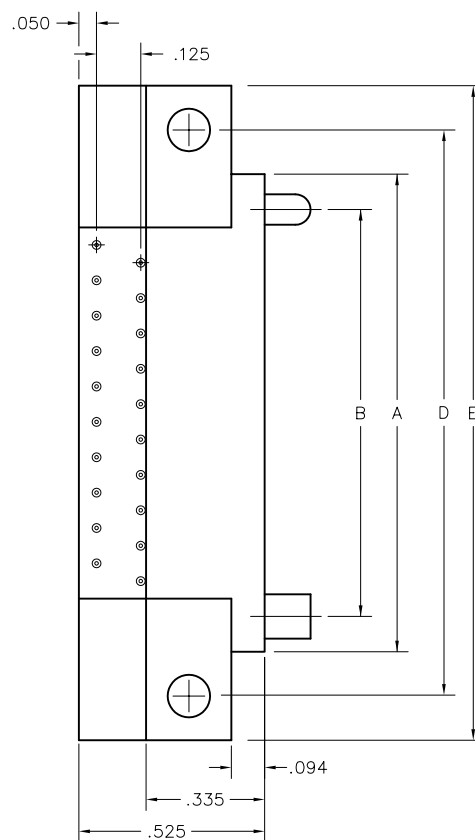
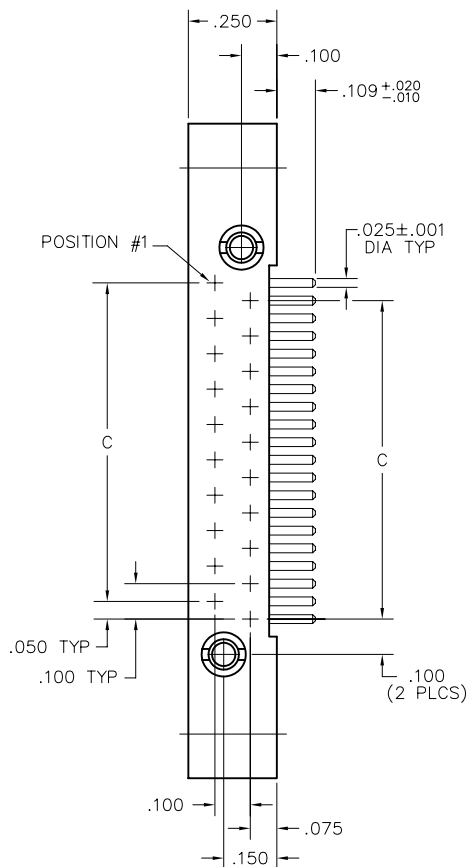
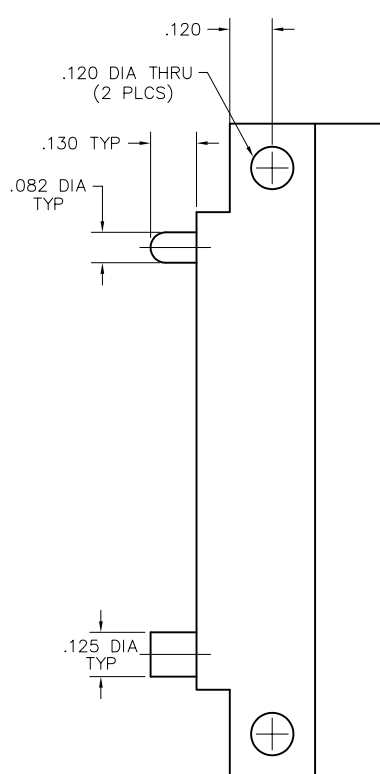
.100"

WTBT

10 thru 70 Contacts



WTBT20SAR7SY



RECEPTACLE

DIMENSIONS											
SIZE	A	B	C	D	E	SIZE	A	B	C	D	E
10	.850	.650	.400	1.100	1.350	44	2.550	2.350	2.100	2.800	3.050
14	1.050	.850	.600	1.300	1.550	50	2.850	2.650	2.400	3.100	3.350
20	1.350	1.150	.900	1.600	1.850	54	3.050	2.850	2.600	3.300	3.550
24	1.550	1.350	1.100	1.800	2.050	56	3.150	2.950	2.700	3.400	3.650
26	1.650	1.450	1.200	1.900	2.150	60	3.350	3.150	2.900	3.600	3.850
30	1.850	1.650	1.400	2.100	2.350	66	3.650	3.450	3.200	3.900	4.150
36	2.150	1.950	1.700	2.400	2.650	70	3.850	3.650	3.400	4.100	4.350
40	2.350	2.150	1.900	2.600	2.850						

* = FOR TEST APPLICATIONS

RECEPTACLE: WTBT 20 SAR7 SY
XXXX XX XXXX XX

RECEPTACLE

SERIES

WTBT Receptacle, right angle, with mounting ears

SIZE

XX Number of contacts (10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, or 70)

CONTACTS

TYPE CONTACTS/TERMINATIONS:

SARC Socket, right angle, solder cup (.035" I.D.)
SAR7 Socket, right angle, dip solder, .109" x .025" dia
SAR9 Socket, right angle, dip solder, .140" x .025" dia
SAR11 Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

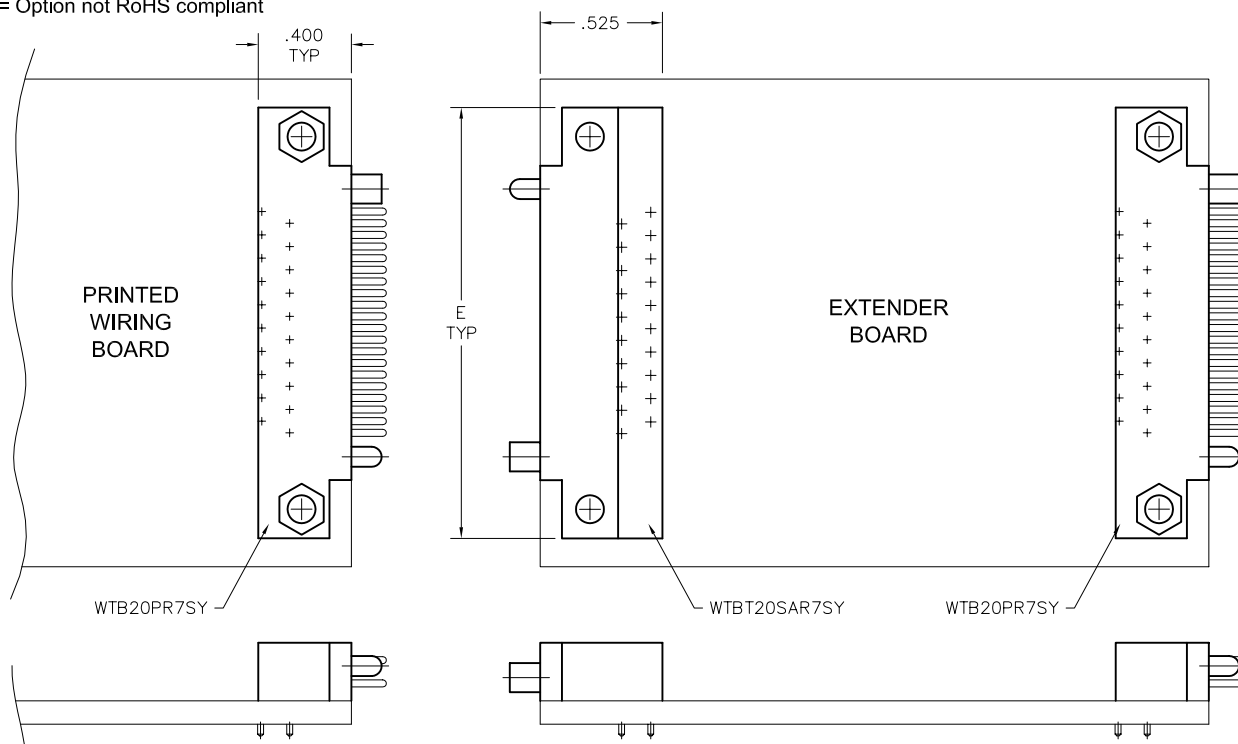
SY Guide set
J Fixed jackset
JT Turning jackset, .475"
JTA Turning jackset, .175"
JTB Hex turning jackset, .175"
JTC Hex turning jackset, .475"
JTL Turning jackset, long, .675"

- WTBT connectors with "J" hardware will mate with: WTA*****JT
WTA*****JTA
- WTBT connectors with "SY" hardware will mate with: WTB*****SY
WTAV*****SY
- For polarized "D" shaped guides, add dash and code number to the part number (example: -7).
See "Polarization" in Accessories section for codes.

OPTIONS

- Option Codes: Add to the end of the part number. Example: WTBT10SAR9J-D01. Call factory for additional codes.
- 342 Remove mounting ears (.250" each end)
- D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).

☒ = Option not RoHS compliant



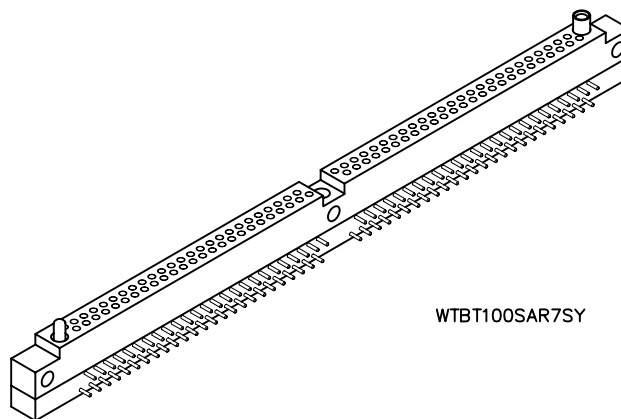


2 • ROW Extender Board Connector*

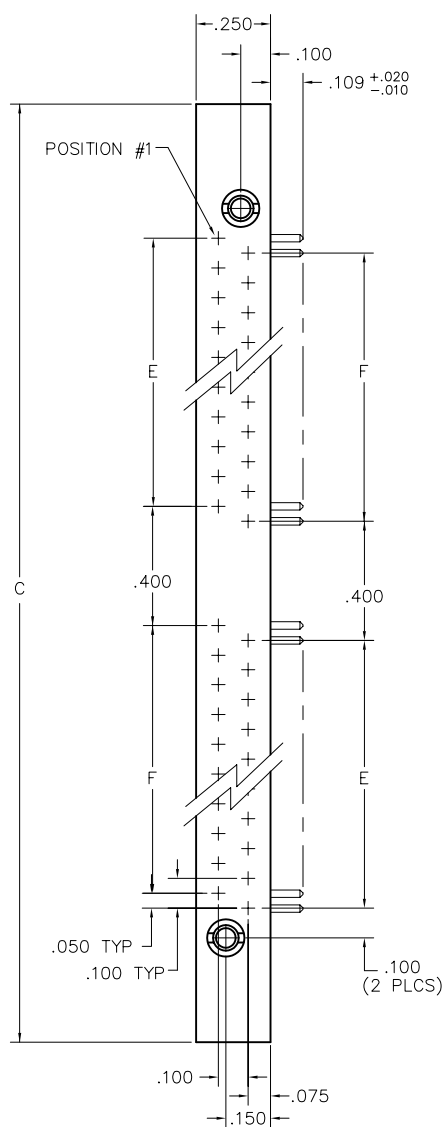
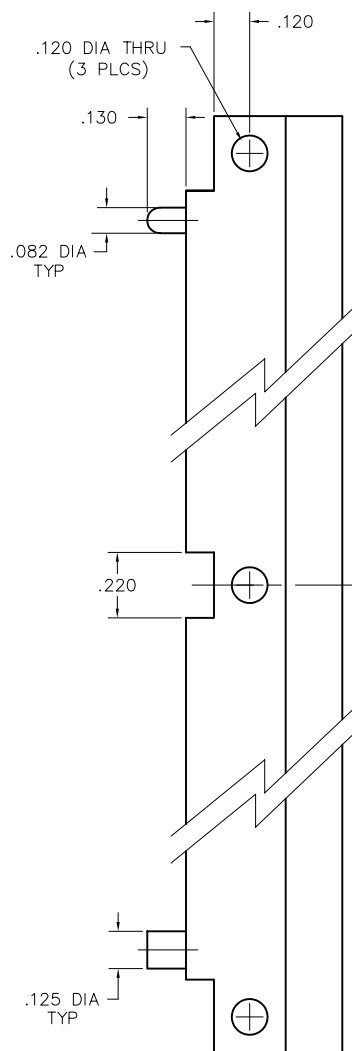
.100"

WTBT

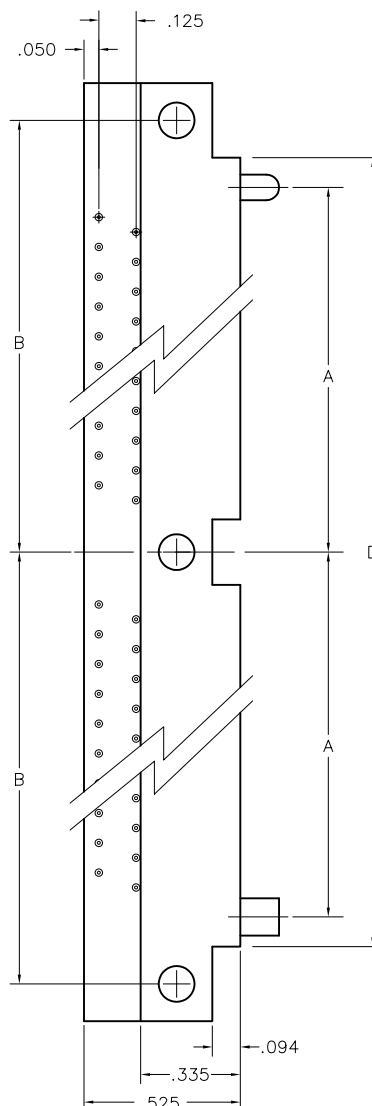
100 Contacts



WTBT100SAR7SY



RECEPTACLE



DIMENSIONS						
SIZE	A	B	C	D	E	F
100	2.725	2.950	6.150	5.650	2.400	2.400

* = FOR TEST APPLICATIONS

RECEPTACLE: WTBT 100 SAR7 SY
XXXX XXX XXXX XX

RECEPTACLE

SERIES

WTBT Receptacle, right angle, with mounting ears

- WTBT connectors will mate with WTA, WTA V, WTB, WTB V.

SIZE

XXX Number of contacts (100)

CONTACTS

TYPE CONTACTS/TERMINATIONS:

- SAR7 Socket, right angle, dip solder, .109" x .025" dia
SAR9 Socket, right angle, dip solder, .140" x .025" dia
SAR11 Socket, right angle, dip solder, .172" x .025" dia
SARC Socket, right angle, solder cup (.035" I.D.)

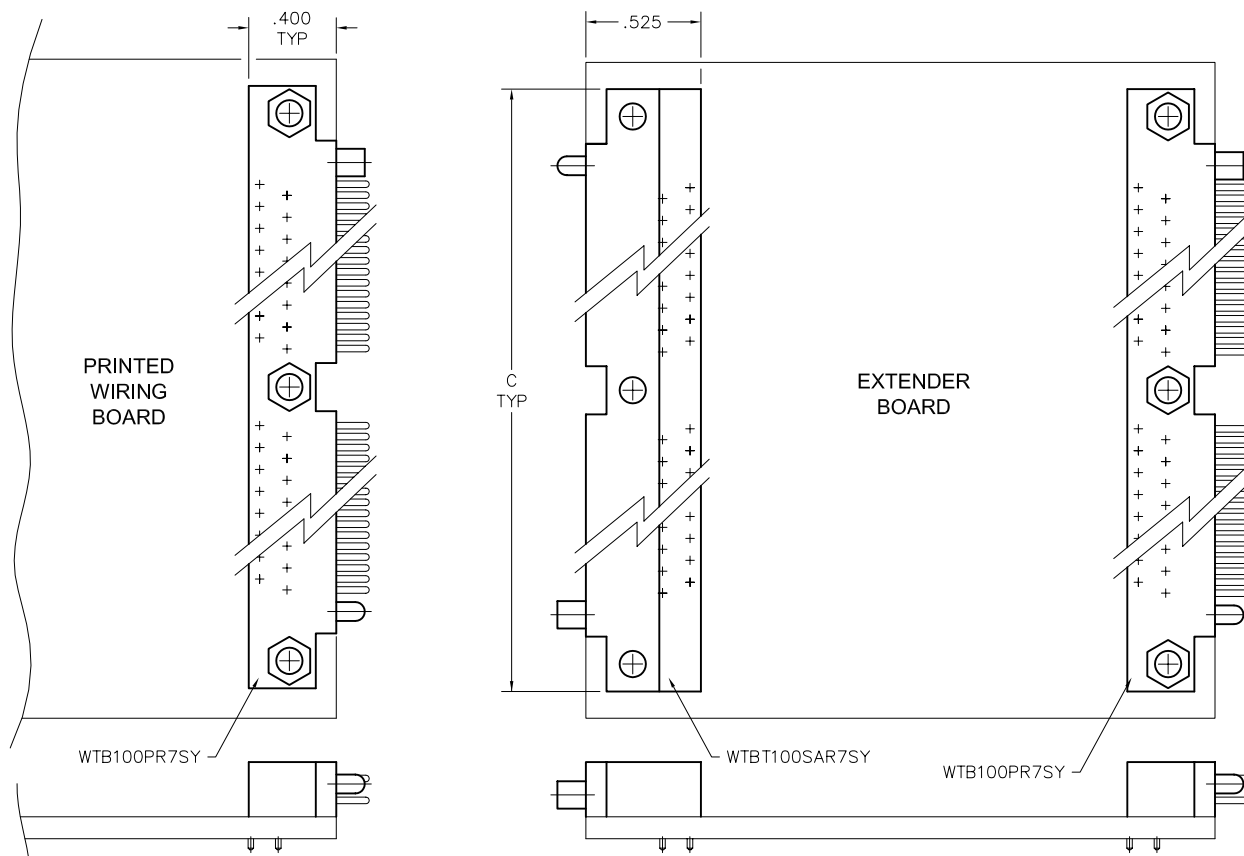
HARDWARE

- SY Guide set
SY-# Guide set, polarized
J Fixed jackset
JT Turning jackset, .475"
JTA Turning jackset, .175"
JTB Hex turning jackset, .175"
JTC Hex turning jackset, .475"
JTL Long turning jackset, .675"

OPTIONS

- Option Codes: Add to the end of the part number. Example: WTBT100SAR7SY342. Call factory for additional codes.
- 342 Remove mounting ears (.250" each end)
- D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).

☒ = Option not RoHS compliant





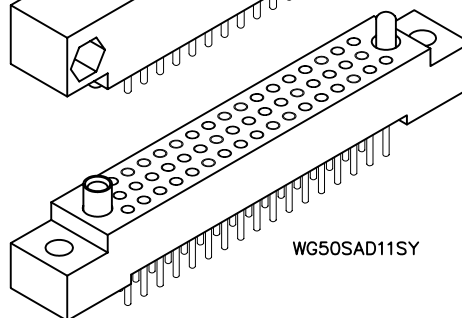
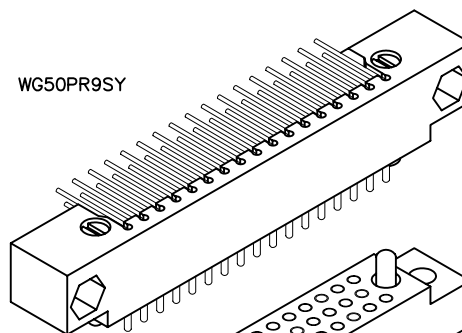
3 • ROW PC Card to Board or Chassis

.100"

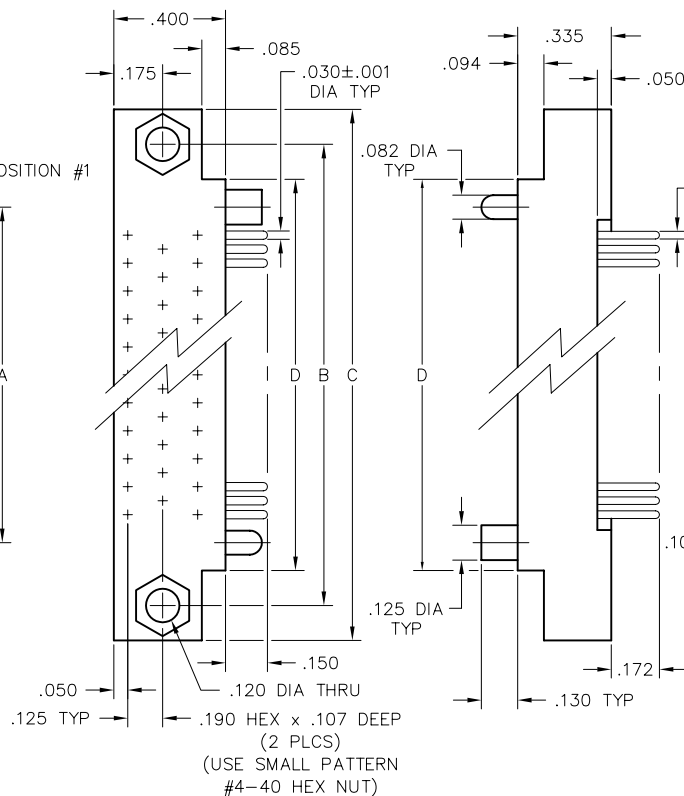
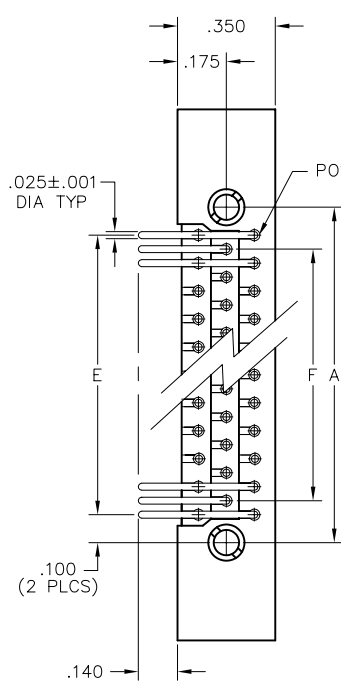
WG - WG

50 thru 104 Contacts

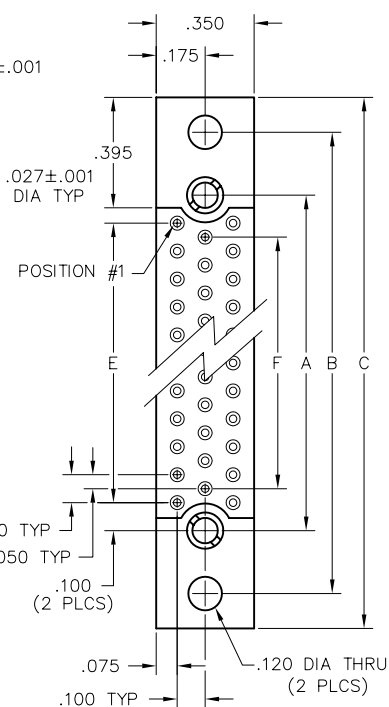
WG50PR9SY



WG50SAD11SY



PLUG



RECEPTACLE

DIMENSIONS						
SIZE	A	B	C	D	E	F
50	1.800	2.250	2.500	2.000	1.600	1.500
62	2.200	2.650	2.900	2.400	2.000	1.900
80	2.800	3.250	3.500	3.000	2.600	2.500
92	3.200	3.650	3.900	3.400	3.000	2.900
104	3.600	4.050	4.300	3.800	3.400	3.300

PLUG: WG 50 PR9 SY
RECEPTACLE: WG 50 SAD11 SY
XX XX XXXXX XX

PLUG

RECEPTACLE

SERIES	
WG	Plug, right angle, with mounting ears
WG	Receptacle, straight, with mounting ears
WG	Receptacle, right angle, with mounting ears
SIZE	
XX	Number of contacts (50, 62, 80, 92, or 104)
XX	Number of contacts (50, 62, 80, 92, or 104)
CONTACTS	

- The contact type determines image of connector. Pin, right angle contacts are always plug image. Straight pin contacts or socket contacts are receptacle image.

TYPE CONTACTS/TERMINATIONS:

PR7 Pin, right angle, dip solder, .109" x .025" dia
PR9 Pin, right angle, dip solder, .140" x .025" dia
PR11 Pin, right angle, dip solder, .172" x .025" dia
PR15 Pin, right angle, dip solder, .234" x .025" dia
PRW34 Pin, right angle, wire wrap®, .531"
PRW42 Pin, right angle, wire wrap®, .656"

TYPE CONTACTS/TERMINATIONS:

SAC Socket, straight, solder cup (.035" I.D.)
SAD7 Socket, straight, dip solder, .109" x .027" dia
SAD9 Socket, straight, dip solder, .140" x .027" dia
SAD11 Socket, straight, dip solder, .172" x .027" dia
SAF3 Socket, straight, flex circuit, .050"
SAF6 Socket, straight, flex circuit, .093"
SAF9 Socket, straight, flex circuit, .140"
SAG7 Socket, straight, dip solder, .109" x .018" dia
SAG9 Socket, straight, dip solder, .140" x .018" dia
SAG11 Socket, straight, dip solder, .172" x .018" dia
SAP Socket, straight, pin termination .150", connector saver
SAW24 Socket, straight, wire wrap®, .375"
SAW40 Socket, straight, wire wrap®, .625"
SOR7 Socket, right angle, dip solder, .109" x .025" dia
SOR9 Socket, right angle, dip solder, .140" x .025" dia
SOR11 Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

- Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WG50PR9QJ.
See "Gaskets" and "Hoods" in Accessories section for instructions.

SY Guide set

SY-# Guide set, polarized

SYL Guide set, long

JT Turning jackset, .435"

JTA Turning jackset, .135"

JTB Hex turning jackset, .135"

JTC Hex turning jackset, .435"

JTL Turning jackset, long, .635"

SY Guide set

SY-# Guide set, polarized

SYL Guide set, long

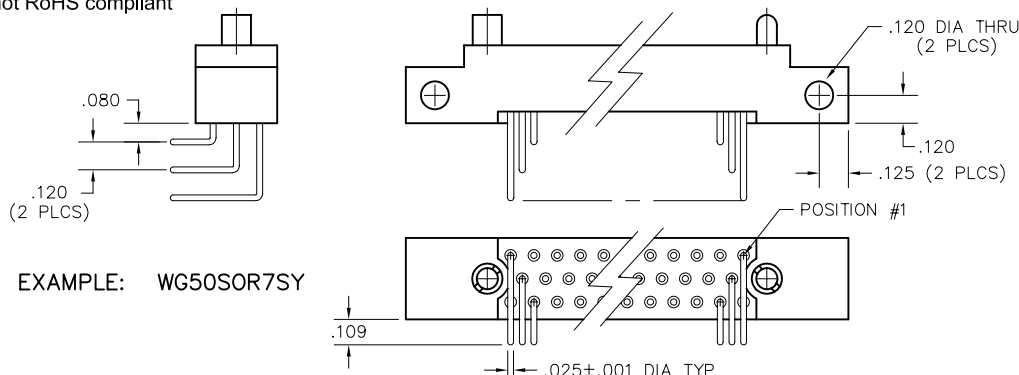
J Fixed jackset

JL Fixed jackset, long

OPTIONS

- Option Codes: Add to the end of the part number. Example: WG80PR9SY342. Call factory for additional codes.
- 342 Remove mounting ears. (.250" each end)
- 548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- B82 Termination face sealed against conformal coating
- D01 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free).
- D54 Combine -B82 & -D01 options
- G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)

☒ = Option not RoHS compliant





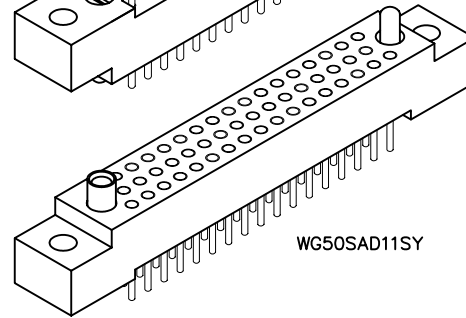
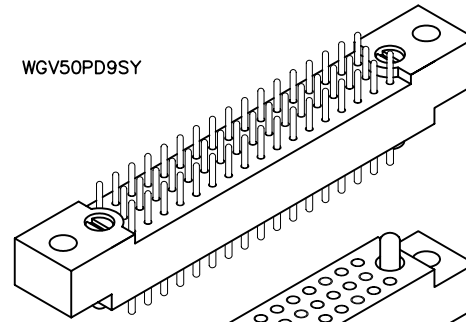
3 • ROW Sandwich Boards

.100"

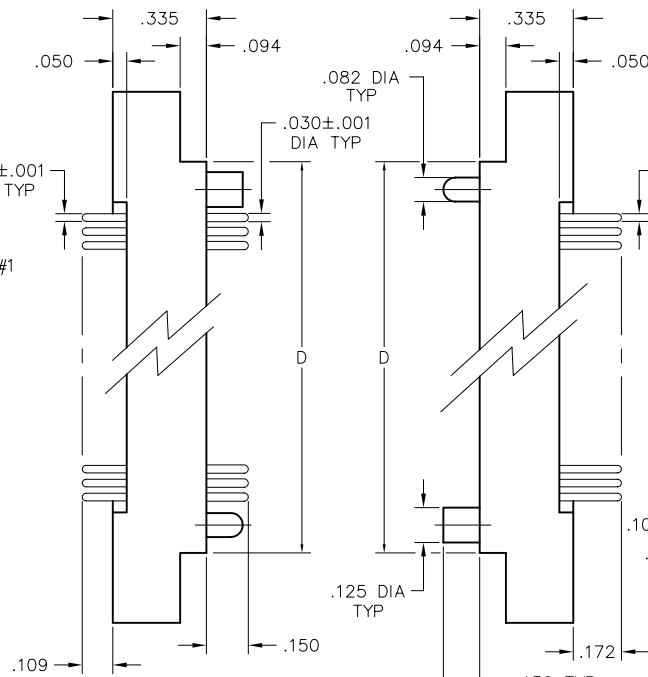
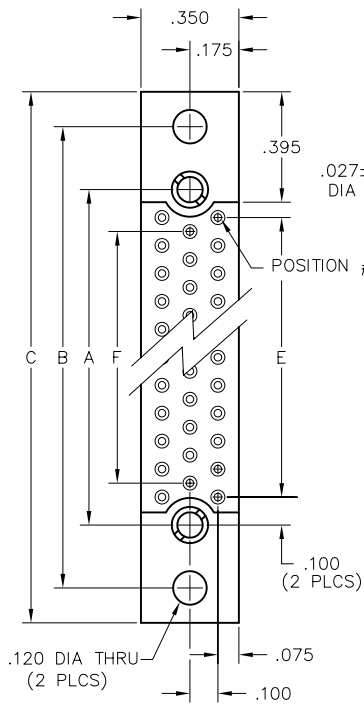
WGV - WG

50 thru 104 Contacts

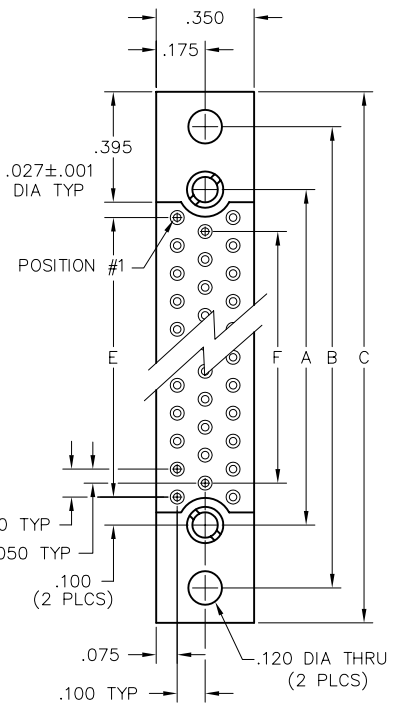
WGV50PD9SY



WG50SAD11SY



PLUG



RECEPTACLE

DIMENSIONS						
SIZE	A	B	C	D	E	F
50	1.800	2.250	2.500	2.000	1.600	1.500
62	2.200	2.650	2.900	2.400	2.000	1.900
80	2.800	3.250	3.500	3.000	2.600	2.500
92	3.200	3.650	3.900	3.400	3.000	2.900
104	3.600	4.050	4.300	3.800	3.400	3.300



PLUG: WGV 50 PD9 SY
RECEPTACLE: WG 50 SAD11 SY
XXX XX XXXXX XX

PLUG

RECEPTACLE

SERIES	
WGV	Plug, with mounting ears
WG	Receptacle, straight, with mounting ears
WG	Receptacle, right angle, with mounting ears

SIZE	
XX	Number of contacts (50, 62, 80, 92, or 104)
XX	Number of contacts (50, 62, 80, 92, or 104)

CONTACTS	
----------	--

- Pin or socket contacts can be used in either plug or receptacle.
- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

TYPE CONTACTS/TERMINATIONS:

PC Pin, straight, solder cup (.035" I.D.)
PD7 Pin, straight, dip solder, .109" x .027" dia
PD9 Pin, straight, dip solder, .140" x .027" dia
PD11 Pin, straight, dip solder, .172" x .027" dia
PD13 Pin, straight, dip solder, .203" x .027" dia
PF3 Pin, straight, flex circuit, .050"
PF6 Pin, straight, flex circuit, .093"
PF8 Pin, straight, flex circuit, .125"
PW34 Pin, straight, wire wrap[®], .531"
PW40 Pin, straight, wire wrap[®], .625"

TYPE CONTACTS/TERMINATIONS:

SAC Socket, straight, solder cup (.035" I.D.)
SAD7 Socket, straight, dip solder, .109" x .027" dia
SAD9 Socket, straight, dip solder, .140" x .027" dia
SAD11 Socket, straight, dip solder, .172" x .027" dia
SAF3 Socket, straight, flex circuit, .050"
SAF6 Socket, straight, flex circuit, .093"
SAF9 Socket, straight, flex circuit, .140"
SAG7 Socket, straight, dip solder, .109" x .018" dia
SAG9 Socket, straight, dip solder, .140" x .018" dia
SAG11 Socket, straight, dip solder, .172" x .018" dia
SAP Socket, straight, pin termination .150", connector saver
SAW24 Socket, straight, wire wrap[®], .375"
SAW40 Socket, straight, wire wrap[®], .625"
SOR7 Socket, right angle, dip solder, .109" x .025" dia
SOR9 Socket, right angle, dip solder, .140" x .025" dia
SOR11 Socket, right angle, dip solder, .172" x .025" dia

HARDWARE	
----------	--

- Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WGV50PD9QJ.
See "Gaskets" and "Hoods" in Accessories section for instructions.

SY	Guide set	SY	Guide set
SY-#	Guide set, polarized	SY-#	Guide set, polarized
SYL	Guide set, long	SYL	Guide set, long
J	Fixed jackset	J	Fixed jackset
JL	Fixed jackset, long	JL	Fixed jackset, long
JT	Turning jackset, .500"	JT	Turning jackset, .500"
JTA	Turning jackset, .200"	JTA	Turning jackset, .200"
JTB	Hex turning jackset, .200"	JTB	Hex turning jackset, .200"
JTC	Turning jackset, .500"	JTC	Turning jackset, .500"
JTL	Turning jackset, long, .700"	JTL	Turning jackset, long, .700"

OPTIONS	
---------	--

- Option Codes: Add to the end of the part number. Example: WG80PR9SY342. Call factory for additional codes.
- 342 Remove mounting ears. (.250" each end)
- D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).
- G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)

☒ = Option not RoHS compliant

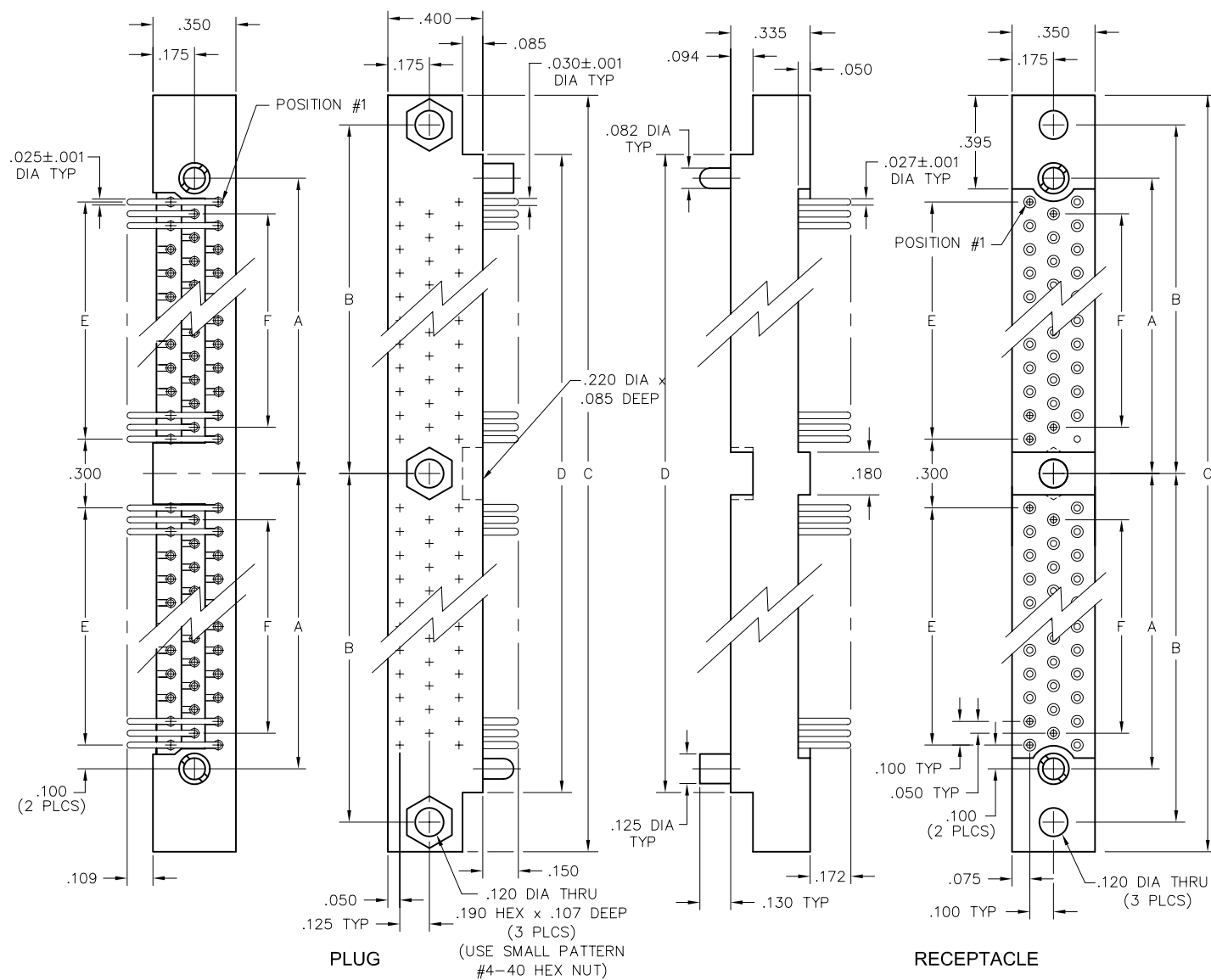
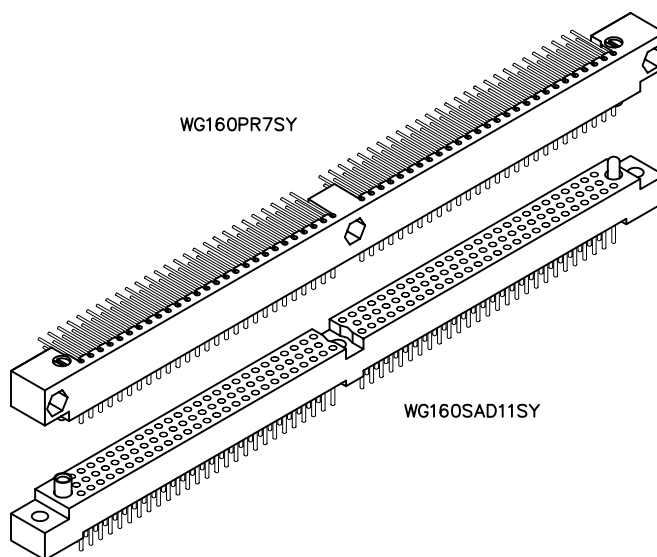
3 • ROW

PC Card to
Board or PC Card

.100"

WG - WG

160 & 208 Contacts



DIMENSIONS						
SIZE	A	B	C	D	E	F
160	2.850	3.075	6.400	5.900	2.600	2.500
208	3.650	3.875	8.000	7.500	3.400	3.300

PLUG: WG 160 PR7 SY
RECEPTACLE: WG 160 SAD11 SY
XX XXX XXXXX XX

PLUG

RECEPTACLE

SERIES	
WG	Plug, right angle, with mounting ears
WG	Receptacle, straight, with mounting ears
WG	Receptacle, right angle, with mounting ears
SIZE	
XX	Number of contacts (160 or 208)
XX	Number of contacts (160 or 208)

CONTACTS

- The contact type determines image of connector. Pin, right angle contacts are always plug image. Straight pin contacts or socket contacts are receptacle image.

TYPE CONTACTS/TERMINATIONS:
PR7 Pin, right angle, dip solder, .109" x .025" dia
PR9 Pin, right angle, dip solder, .140" x .025" dia
PR11 Pin, right angle, dip solder, .172" x .025" dia

TYPE CONTACTS/TERMINATIONS:
SAC Socket, straight, solder cup (.035" I.D.)
SAD7 Socket, straight, dip solder, .109" x .027" dia
SAD9 Socket, straight, dip solder, .140" x .027" dia
SAD11 Socket, straight, dip solder, .172" x .027" dia
SAF3 Socket, straight, flex circuit, .050"
SAF6 Socket, straight, flex circuit, .093"
SAF9 Socket, straight, flex circuit, .140"
SAG7 Socket, straight, dip solder, .109" x .018" dia
SAG9 Socket, straight, dip solder, .140" x .018" dia
SAG11 Socket, straight, dip solder, .172" x .018" dia
SAP Socket, straight, pin termination .150", connector saver
SAW24 Socket, straight, wire wrap[®], .375"
SAW40 Socket, straight, wire wrap[®], .625"
SOR7 Socket, right angle, dip solder, .109" x .025" dia
SOR9 Socket, right angle, dip solder, .140" x .025" dia
SOR11 Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

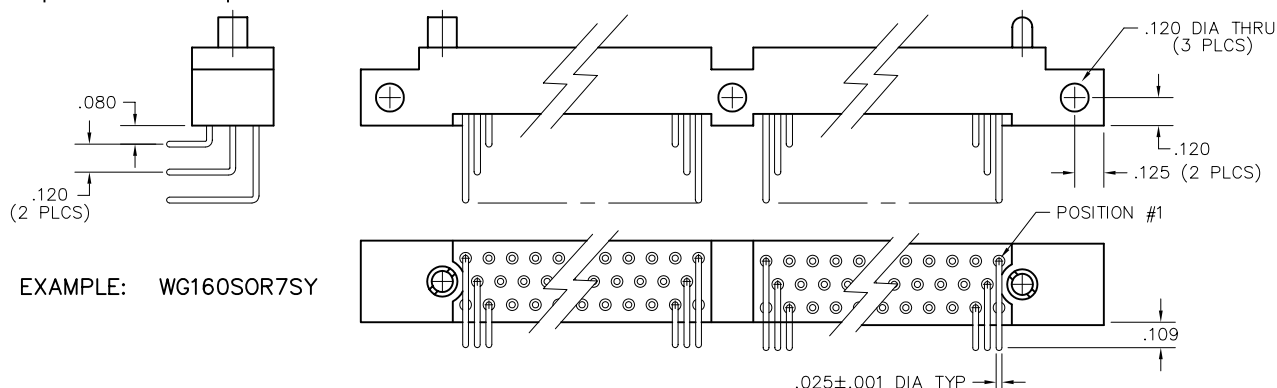
- Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WG160PR9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.

SY Guide set	SY Guide set
SY-# Guide set, polarized	SY-# Guide set, polarized
SYL Guide set, long	SYL Guide set, long
JT Turning jackset, .435"	J Fixed jackset
JTA Turning jackset, .135"	JL Fixed jackset, long
JTB Hex turning jackset, .135"	
JTC Hex turning jackset, .435"	
JTL Turning jackset, long, .635"	

OPTIONS

- Option Codes: Add to the end of the part number. Example: WG160PR9SY548. Call factory for additional codes.
- 342 Remove mounting ears. (.250" each end)
- 548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- B82 Termination face sealed against conformal coating
- D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).
- G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)

☒ = Option not RoHS compliant



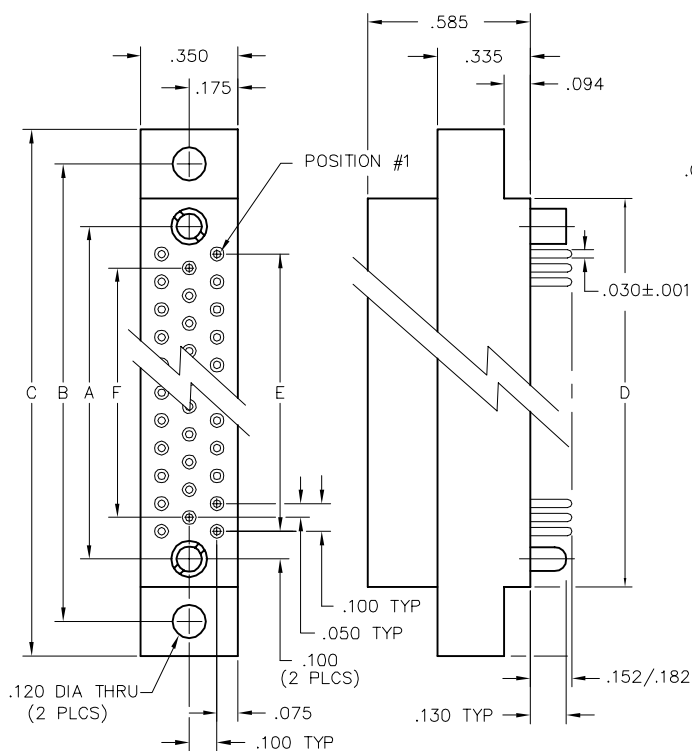
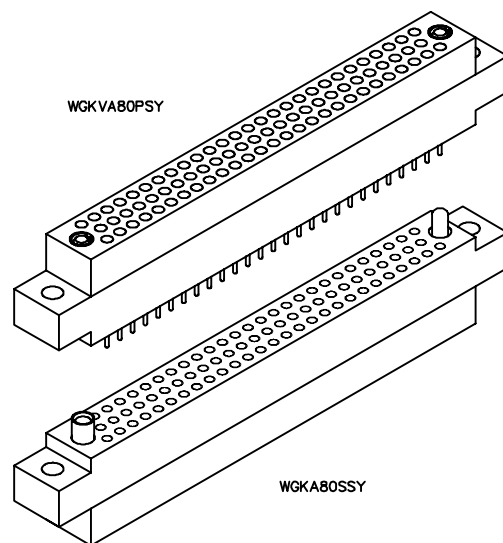


3 • ROW Chassis to Chassis

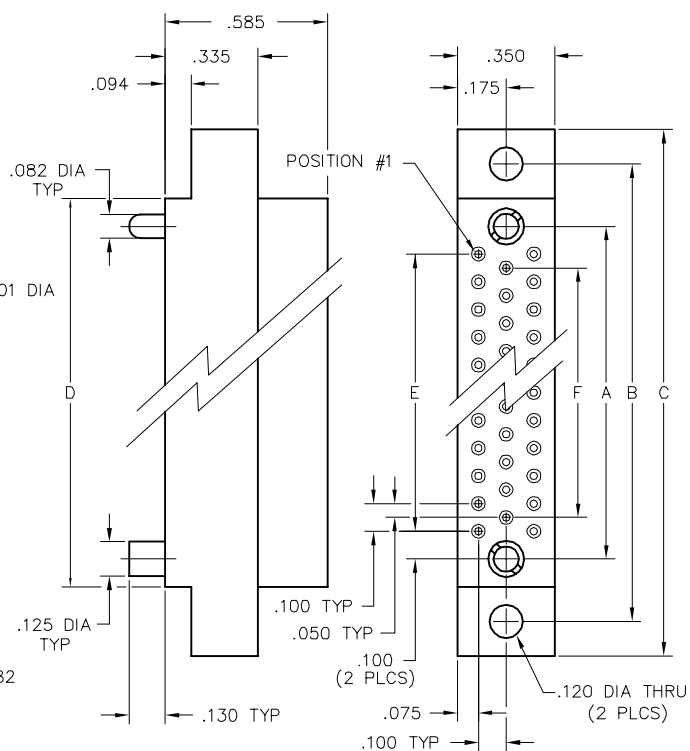
.100"

WGKVA - WGKA

50 thru 160



PLUG



RECEPTACLE

DIMENSIONS						
SIZE	A	B	C	D	E	F
50	1.800	2.250	2.500	2.000	1.600	1.500
62	2.200	2.650	2.900	2.400	2.000	1.900
80	2.800	3.250	3.500	3.000	2.600	2.500
92	3.200	3.650	3.900	3.400	3.000	2.900
104	3.600	4.050	4.300	3.800	3.400	3.300
160*	2.850	3.075	6.400	5.900	2.600	2.500

* = SEE OPPOSITE PAGE FOR 160 POSITION CONFIGURATION

PLUG: WGKVA 80 P SY
 RECEPTACLE: WGKA 80 S SY
 XXXXX XX XXX XX

PLUG

RECEPTACLE

SERIES

WGKVA Plug, straight, crimp removable, with mounting ears

WGKA Receptacle, straight, crimp removable, with mounting ears

- WGKVA and WGKA also mate with WG or WGV connectors. "A" means contacts are included.

SIZE

XX Number of contacts (50, 62, 80, 92, 104 or 160)

XX Number of contacts (50, 62, 80, 92, 104 or 160)

CONTACTS

- The use of gaskets is not recommended with crimp socket contacts.
- When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

TYPE CONTACTS/TERMINATIONS:

P Pin, straight, crimp removable, 22 AWG
 S Socket, straight, crimp removable, 22 AWG
 SA Same as above

TYPE CONTACTS/TERMINATIONS:

S Socket, straight, crimp removable, 22 AWG
 SA Same as above
 P Pin, straight, crimp removable, 22 AWG

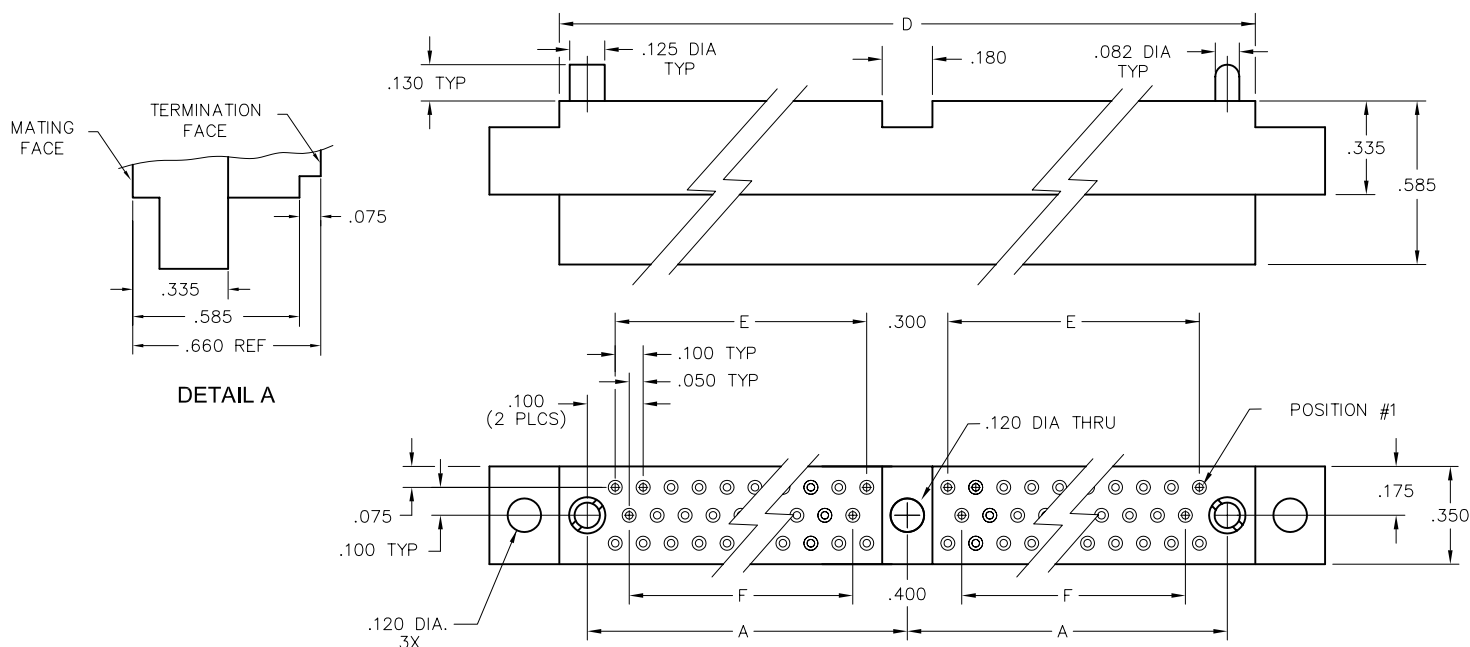
HARDWARE

SY Guide set
 SY-# Guide set, polarized
 J Fixed jackset
 JT Turning jackset, .500"
 JTA Turning jackset, .200"
 JTB Hex turning jackset, .200"
 JTC Hex turning jackset, .500"
 JTL Turning jackset, long, .700"

SY Guide set
 SY-# Guide set, polarized
 J Fixed jackset
 JT Turning jackset, .500"
 JTA Turning jackset, .200"
 JTB Hex turning jackset, .200"
 JTC Hex turning jackset, .500"
 JTL Turning jackset, long, .700"

OPTIONS

- Option Codes: Add to the end of the part number. Example: WGDXA80SSY-C45. Call factory for additional codes.
- A53 Socket, straight, crimp removable, 20 AWG
- C45 Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.



EXAMPLE: WGKA160SSY



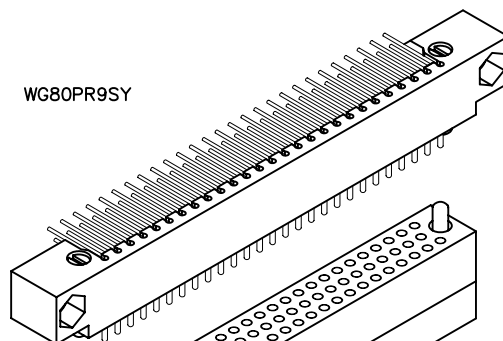
3 • ROW PC Card to Chassis

.100"

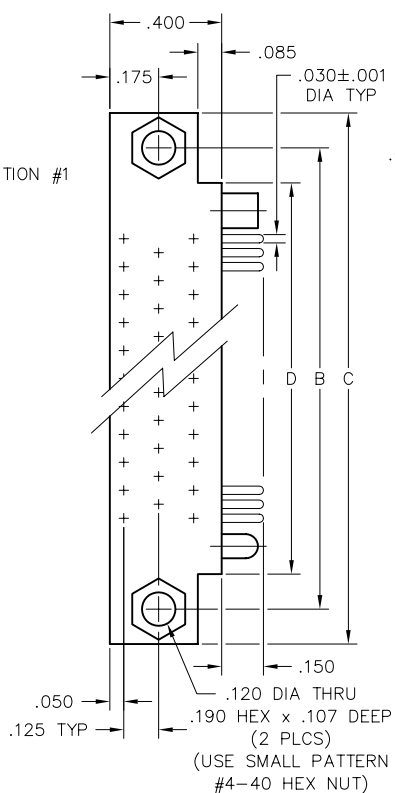
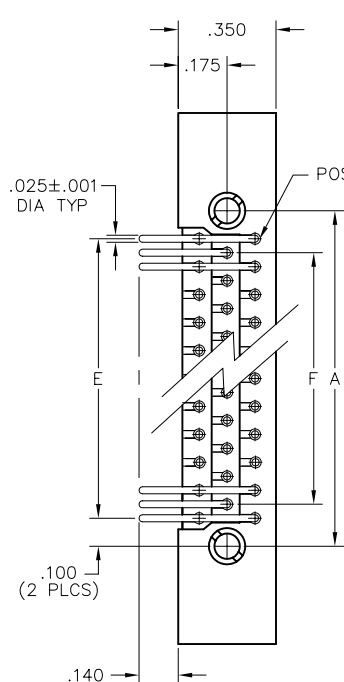
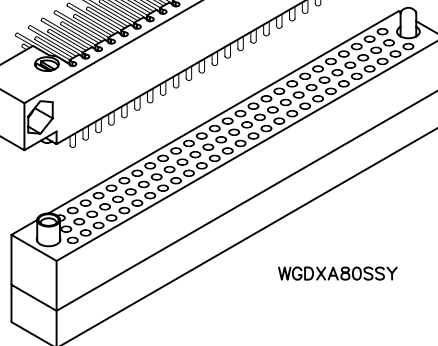
WG - WGDXA

50 thru 160

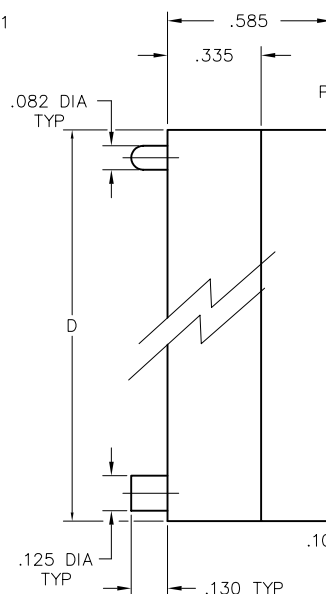
WG80PR9SY



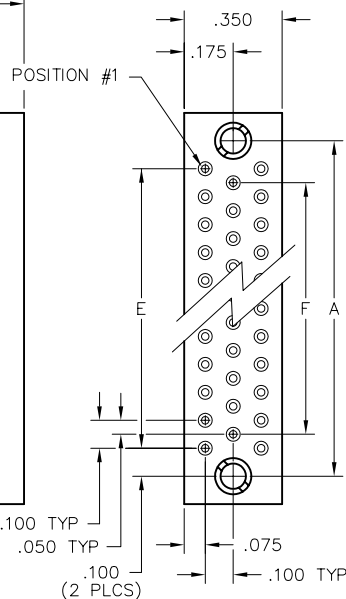
WGDXA80SSY



PLUG



RECEPTACLE



DIMENSIONS						
SIZE	A	B	C	D	E	F
50	1.800	2.250	2.500	2.000	1.600	1.500
62	2.200	2.650	2.900	2.400	2.000	1.900
80	2.800	3.250	3.500	3.000	2.600	2.500
92	3.200	3.650	3.900	3.400	3.000	2.900
104	3.600	4.050	4.300	3.800	3.400	3.300
160*	2.850	3.075	6.400	5.900	2.600	2.500

* = SEE OPPOSITE PAGE FOR 160 POSITION CONFIGURATION

PLUG: WG 80 PR9 SY
 RECEPTACLE: WGDXA 80 S SY
 XXXXX XX XXX XX

PLUG

RECEPTACLE

SERIES

WG Plug, right angle, with mounting ears

WGDXA Receptacle, straight, crimp removable, without mounting ears

- WGKA and WGDXA also mate with WGV connectors. "A" means contacts are included.

SIZE

XX Number of contacts (50, 62, 80, 92, 104 or 160)

XX Number of contacts (50, 62, 80, 92, 104 or 160)

CONTACTS

- The use of gaskets is not recommended with crimp socket contacts.
- The contact type determines the image of the connector. Pin, right angle contacts are always plug image. Straight pin or sockets are receptacle image.
- When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

TYPE CONTACTS/TERMINATIONS:

PR7 Pin, right angle, dip solder, .109" x .025" dia
 PR9 Pin, right angle, dip solder, .140" x .025" dia
 PR11 Pin, right angle, dip solder, .172" x .025" dia
 PRW40 Pin, right angle, wire wrap®, .625"

TYPE CONTACTS/TERMINATIONS:

S Socket, straight, crimp removable, 22 AWG
 SA Same as above
 P Pin, straight, crimp removable, 22 AWG

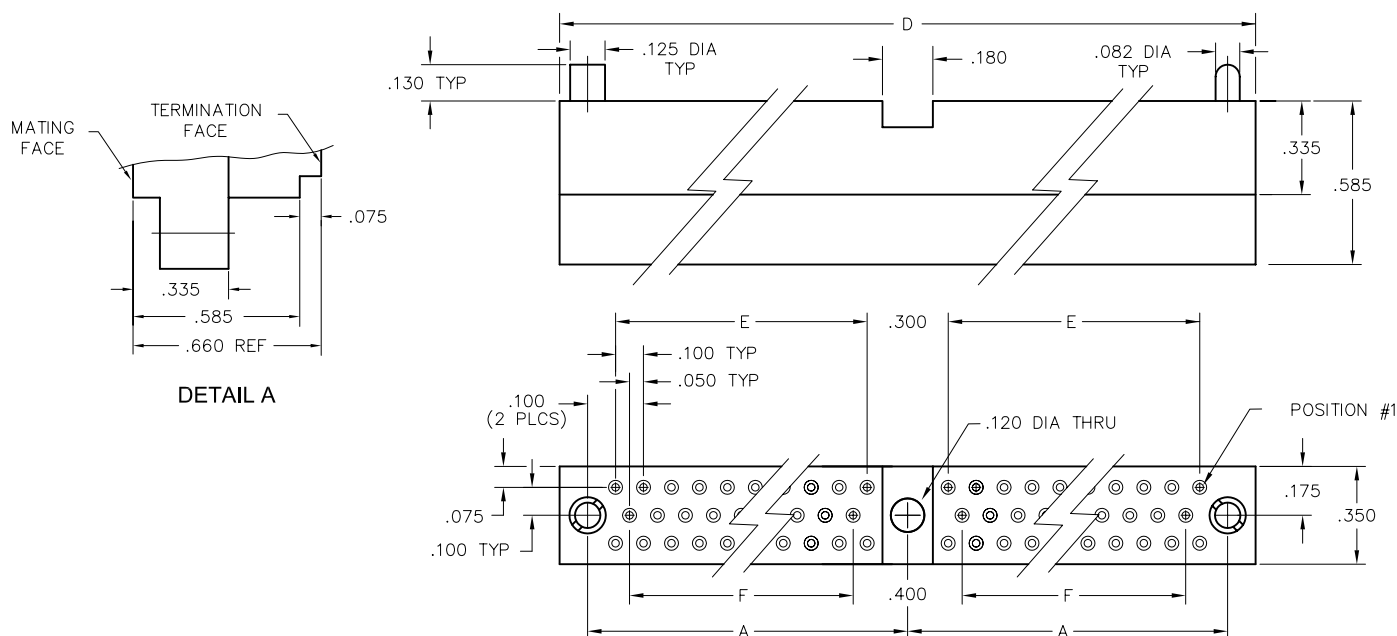
HARDWARE

SY Guide set
 SY-# Guide set, polarized
 J Fixed jackset

SY Guide set
 SY-# Guide set, polarized
 J Fixed jackset
 JT Turning jackset, .500"
 JTA Turning jackset, .200"
 JTB Hex turning jackset, .200"
 JTC Hex turning jackset, .500"
 JTL Turning jackset, long, .700"

OPTIONS

- Option Codes: Add to the end of the part number. Example: WGDXA80SSY-C45. Call factory for additional codes.
- 548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- A53 Socket, straight, crimp removable, 20 AWG
- C45 Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.



EXAMPLE: WGDXA160SSY

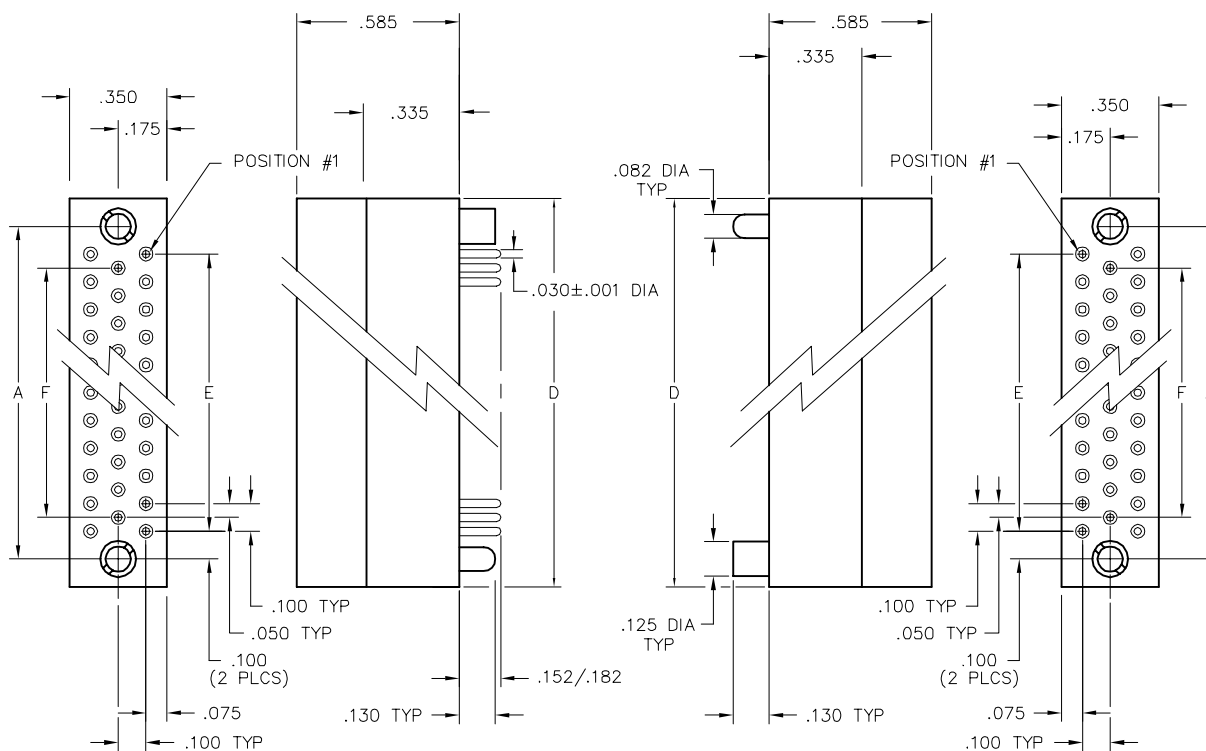
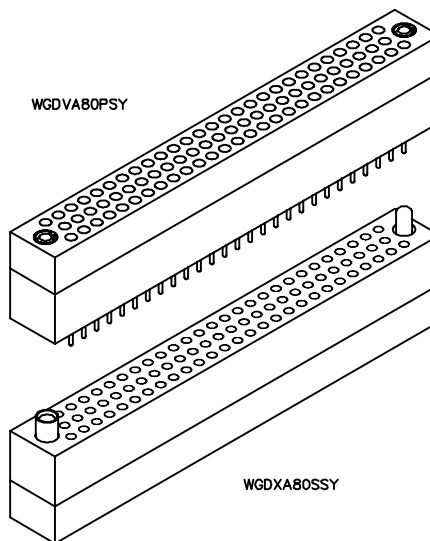


3 • ROW Chassis to Chassis

.100"

WGDVA - WGDXA

50 thru 160



PLUG

RECEPTACLE

DIMENSIONS				
SIZE	A	D	E	F
50	1.800	2.000	1.600	1.500
62	2.200	2.400	2.000	1.900
80	2.800	3.000	2.600	2.500
92	3.200	3.400	3.000	2.900
104	3.600	3.800	3.400	3.300
160*	2.850	5.900	2.600	2.500

* = SEE OPPOSITE PAGE FOR 160 POSITION CONFIGURATION



PLUG: WGDVA 80 P SY
RECEPTACLE: WGDXA 80 S SY
XXXXX XX XXX XX

PLUG

RECEPTACLE

SERIES

WGDVA Plug, straight, crimp removable, without mounting ears

WGDXA Receptacle, straight, crimp removable, without mounting ears

- WGDVA and WGDXA also mate with WG or WGV connectors. "A" means contacts are included.

SIZE

XX Number of contacts (50, 62, 80, 92, 104 or 160)

XX Number of contacts (50, 62, 80, 92, 104 or 160)

CONTACTS

- The use of gaskets is not recommended with crimp socket contacts.
- When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

TYPE CONTACTS/TERMINATIONS:

P Pin, straight, crimp removable, 22 AWG
S Socket, straight, crimp removable, 22 AWG
SA Same as above

TYPE CONTACTS/TERMINATIONS:

S Socket, straight, crimp removable, 22 AWG
SA Same as above
P Pin, straight, crimp removable, 22 AWG

HARDWARE

SY Guide set
SY-# Guide set, polarized

J Fixed jackset

JT Turning jackset, .500"

JTA Turning jackset, .200"

JTB Hex turning jackset, .200"

JTC Hex turning jackset, .500"

JTL Turning jackset, long, .700"

SY Guide set
SY-# Guide set, polarized

J Fixed jackset

JT Turning jackset, .500"

JTA Turning jackset, .200"

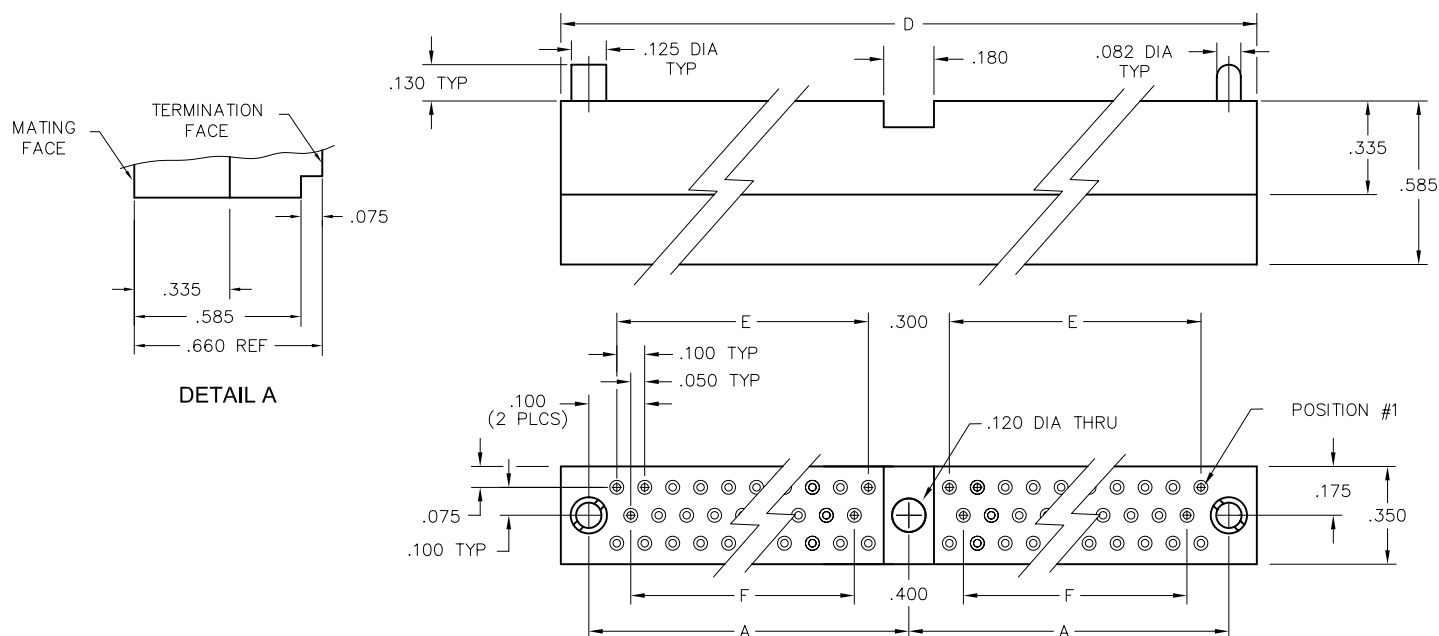
JTB Hex turning jackset, .200"

JTC Hex turning jackset, .500"

JTL Turning jackset, long, .700"

OPTIONS

- Option Codes: Add to the end of the part number. Example: WGDXA80SSY-C45. Call factory for additional codes.
- A53 Socket, straight, crimp removable, 20 AWG
- C45 Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.



EXAMPLE: WGDXA160SSY



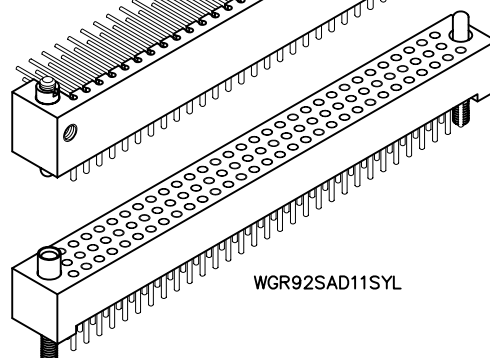
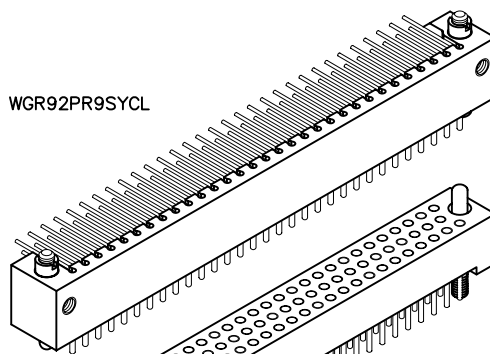
3 • ROW PC Card to Board or Chassis

.100"

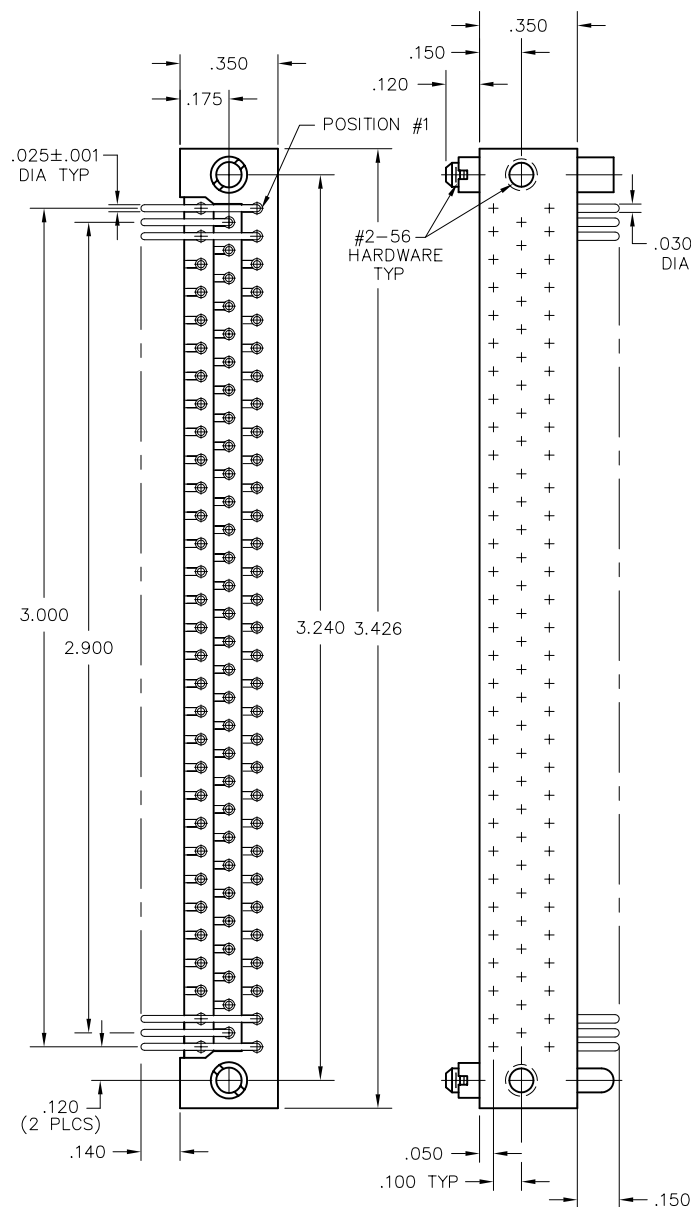
WGR - WGR

92 Contacts

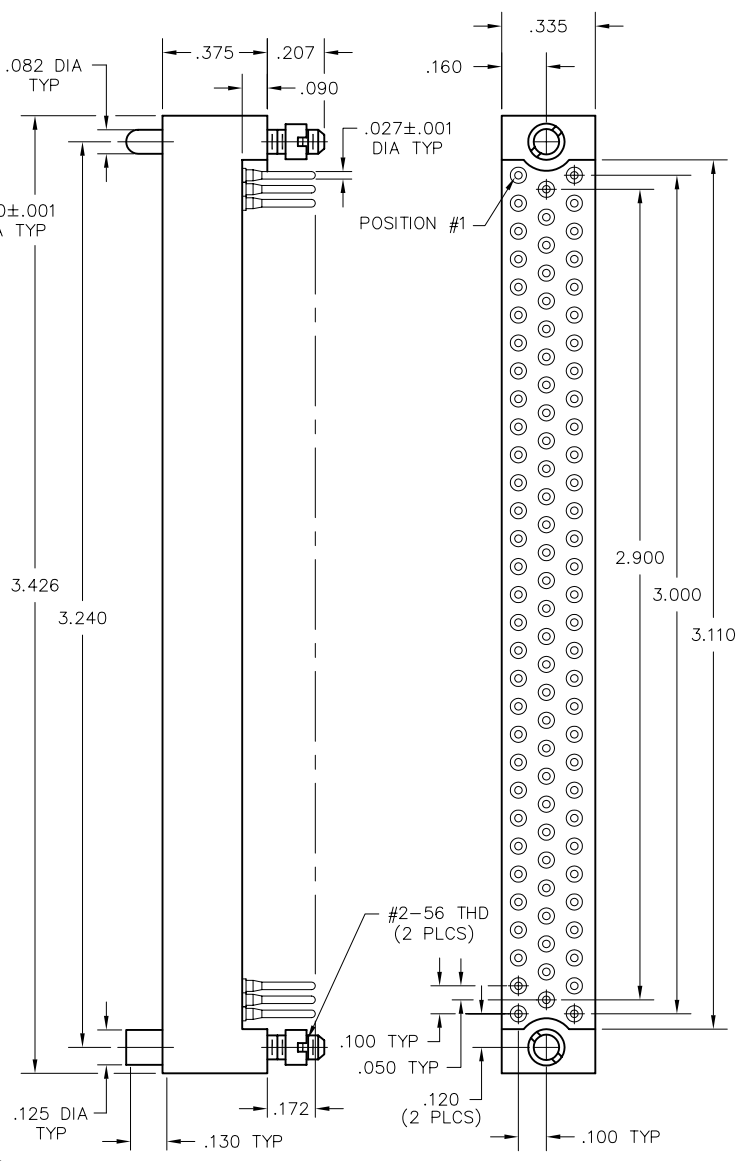
WGR92PR9SYCL



WGR92SAD11SYL



PLUG



RECEPTACLE

PLUG: WGR 92 PR9 SYCL
 RECEPTACLE: WGR 92 SAD11 SYL
 XXX XX XXXXX XXXX

PLUG

RECEPTACLE

SERIES	
WGR Plug, right angle, without mounting ears	WGR Receptacle, straight, without mounting ears
SIZE	
92 Number of contacts	92 Number of contacts
CONTACTS	

- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

TYPE CONTACTS/TERMINATIONS:

PR7 Pin, right angle, dip solder, .109" x .025" dia
 PR9 Pin, right angle, dip solder, .140" x .025" dia
 PR11 Pin, right angle, dip solder, .172" x .025" dia

TYPE CONTACTS/TERMINATIONS:

SAC Socket, straight, solder cup (.035" I.D.)
 SAD7 Socket, straight, dip solder, .109" x .027" dia
 SAD9 Socket, straight, dip solder, .140" x .027" dia
 SAD11 Socket, straight, dip solder, .172" x .027" dia
 SAD16 Socket, straight, dip solder, .250" x .027" dia
 SAG7 Socket, straight, dip solder, .109" x .018" dia
 SAG9 Socket, straight, dip solder, .140" x .018" dia
 SAG11 Socket, straight, dip solder, .172" x .018" dia
 SAP Socket, straight, pin termination .150", connector saver
 SAW40 Socket, straight, wire wrap®, .625"
 SAF6 Socket, straight, flex circuit, .093"

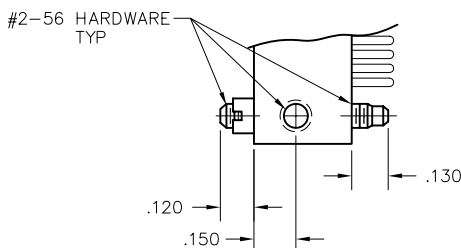
HARDWARE

SYCL Guide set, cross hole mount
 JCL Fixed jackset, cross hole mount

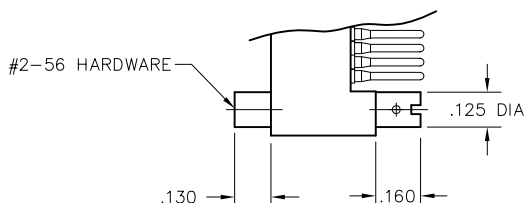
SYL Guide set, long
 JT Turning jackset, .460"
 JTA Turning jackset, .160"

OPTIONS

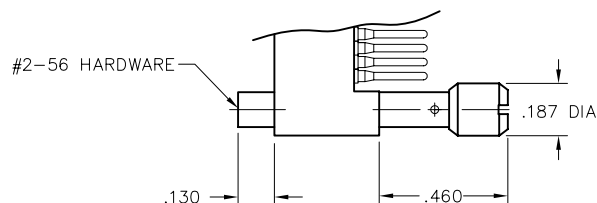
- Option Codes: Add to the end of the part number. Example: WGR92PR9JCL-D01. Call factory for additional codes.
- D01 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free).
- ☒ = Option not RoHS compliant



EXAMPLE: -JCL HARDWARE
(PLUG)



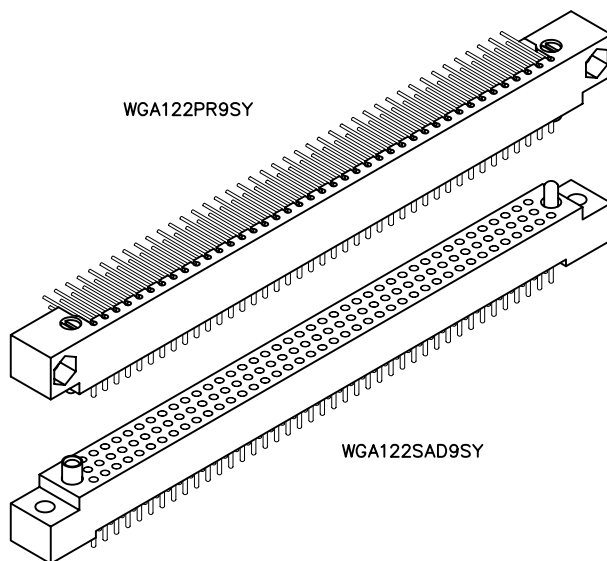
EXAMPLE: -JTA HARDWARE
(RECEPTACLE)



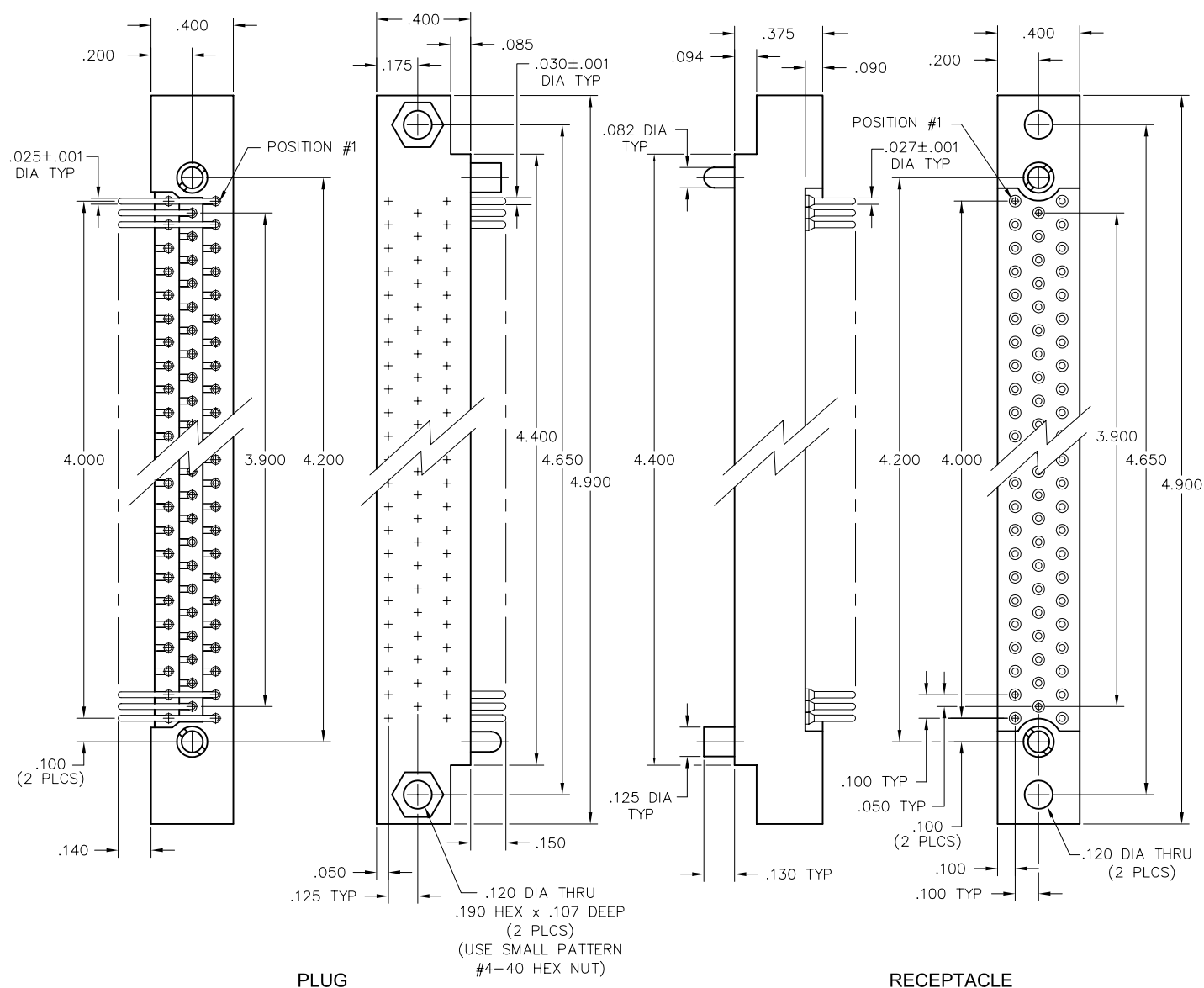
EXAMPLE: -JT HARDWARE
(RECEPTACLE)

122 Contacts

WGA122PR9SY



WGA122SAD9SY



PLUG: WGA 122 PR9 SY
RECEPTACLE: WGA 122 SAD9 SY
XXX XXX XXXX XX

PLUG

RECEPTACLE

SERIES	
WGA Plug, right angle, with mounting ears	WGA Receptacle, straight, with mounting ears WGA Receptacle, right angle, with mounting ears
SIZE	
122 Number of contacts	122 Number of contacts
CONTACTS	

- The contact type determines image of connector. Pin, right angle contacts are always plug image. Straight pin contacts or socket contacts are receptacle image.

TYPE CONTACTS/TERMINATIONS:

PR7 Pin, right angle, dip solder, .109" x .025" dia
PR9 Pin, right angle, dip solder, .140" x .025" dia
PR11 Pin, right angle, dip solder, .172" x .025" dia
PRW32 Pin, right angle, wire wrap[®], .500"

TYPE CONTACTS/TERMINATIONS:

SAC Socket, straight, solder cup (.035" I.D.)
SAD7 Socket, straight, dip solder, .109" x .027" dia
SAD9 Socket, straight, dip solder, .140" x .027" dia
SAD11 Socket, straight, dip solder, .172" x .027" dia
SAF3 Socket, straight, flex circuit, .050"
SAF6 Socket, straight, flex circuit, .093"
SAF9 Socket, straight, flex circuit, .140"
SAG7 Socket, straight, dip solder, .109" x .018" dia
SAG9 Socket, straight, dip solder, .140" x .018" dia
SAG11 Socket, straight, dip solder, .172" x .018" dia
SAP Socket, straight, pin termination .150", connector saver
SAW24 Socket, straight, wire wrap[®], .375"
SAW40 Socket, straight, wire wrap[®], .625"
SOR7 Socket, right angle, dip solder, .109" x .025" dia
SOR9 Socket, right angle, dip solder, .140" x .025" dia
SOR11 Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

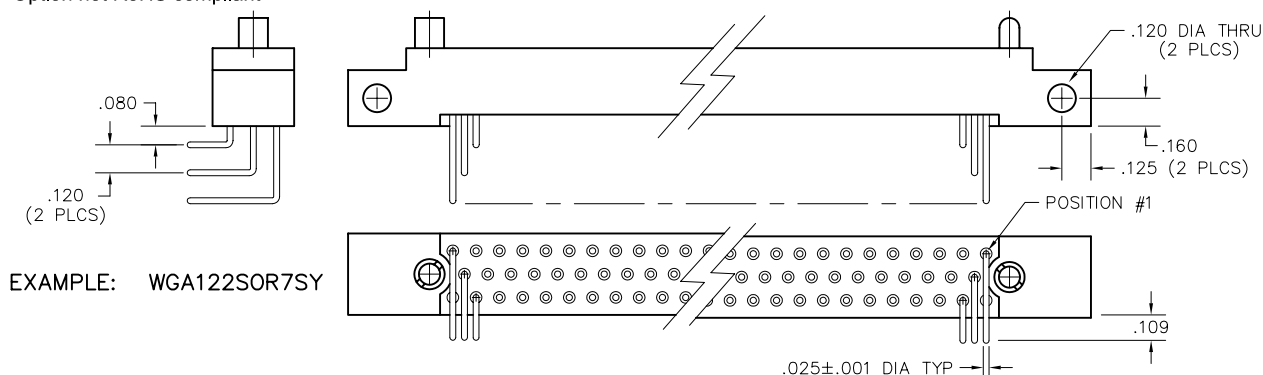
SY Guide set
SY-# Guide set, polarized
SYL Guide set, long
J Fixed jackset
JT Turning jackset, .435"
JTA Turning jackset, .135"
JTB Hex turning jackset, .135"
JTC Turning jackset, .435"
JTL Turning jackset, long, .635"

SY Guide set
SY-# Guide set, polarized
SYL Guide set, long
J Fixed jackset
JL Fixed jackset, long
JT Turning jackset, .460"
JTA Turning jackset, .160"
JTB Hex turning jackset, .160"
JTC Turning jackset, .460"
JTL Turning jackset, long, .660"

OPTIONS

- Option Codes: Add to the end of the part number. Example: WGA122PR9SY548. Call factory for additional codes.
- 342 Remove mounting ears. (.250" each end)
- 548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
- B82 Termination face sealed against conformal coating
- D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).
- G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)
- 413 Straight pin contacts in right angle plug molding with solder cup terminals extending .100" beyond molding.
- D54 Combine -B82 and -D01 special codes.

☒ = Option not RoHS compliant





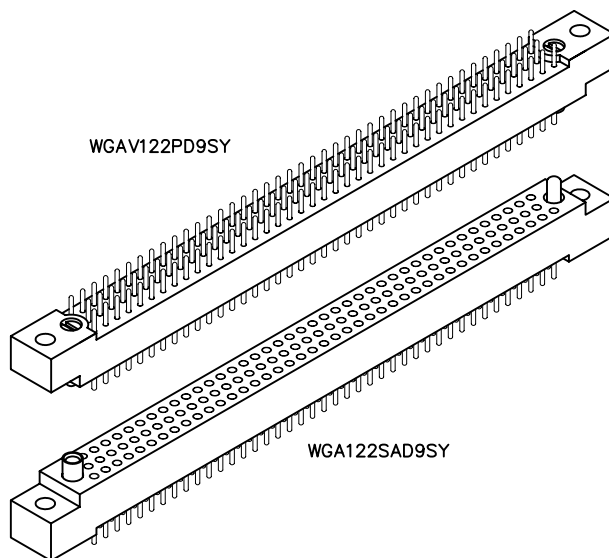
3 • ROW Sandwich Boards

.100"

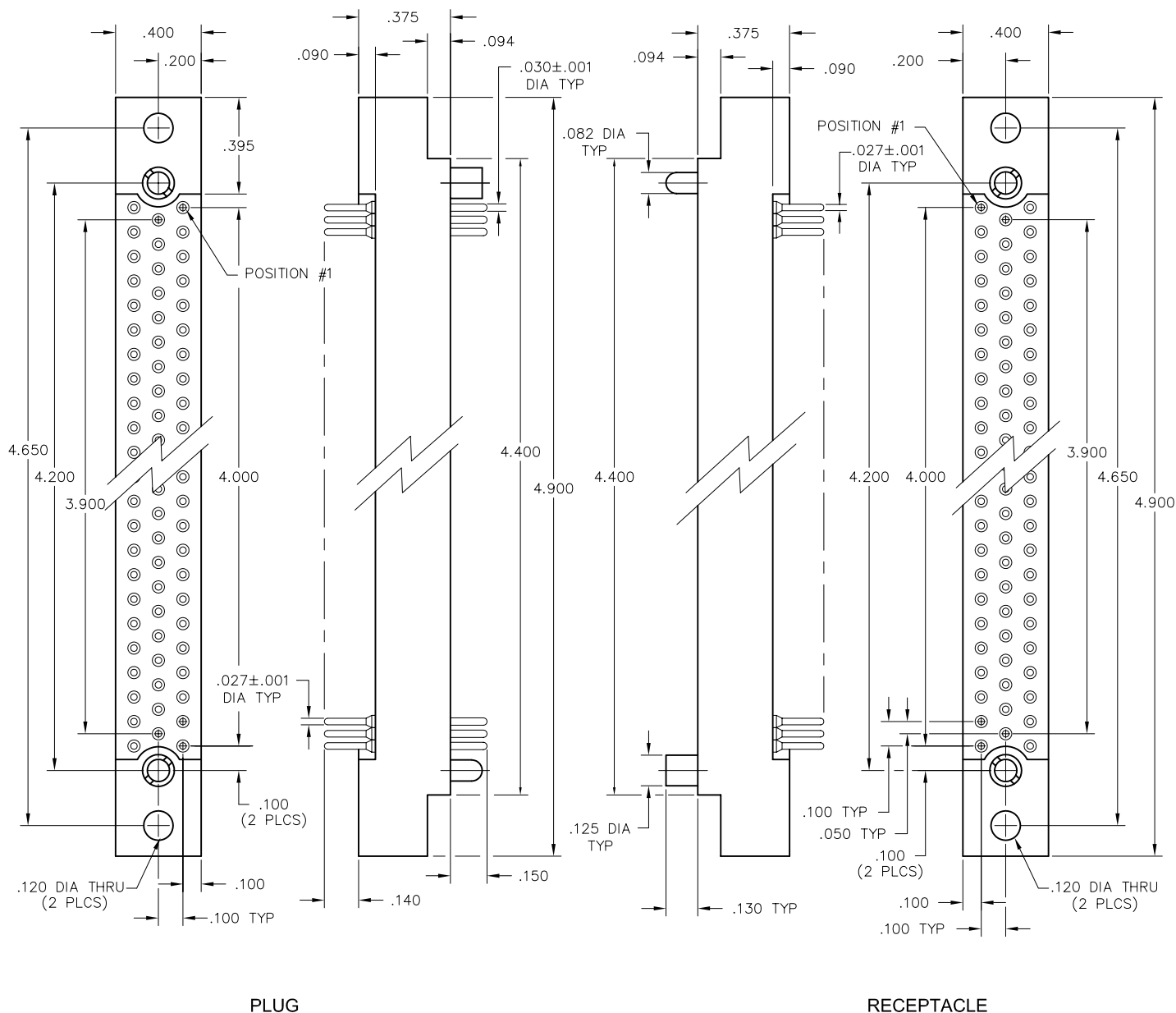
WGAV - WGA

122 Contacts

WGAV122PD9SY



WGA122SAD9SY



PLUG: WGA 122 PD9 SY
RECEPTACLE: WGA 122 SAD9 SY
XXXX XXX XXXX XX

PLUG

RECEPTACLE

SERIES			
WGA	Plug, straight, with mounting ears	WGA	Receptacle, straight, with mounting ears
		WGA	Receptacle, right angle, with mounting ears
SIZE			
122	Number of contacts	122	Number of contacts
CONTACTS			

CONTACTS

- Pin or socket contacts can be used in either plug or receptacle.
- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:	
PC	Pin, straight, solder cup (.035" I.D.)	SAC	Socket, straight, solder cup (.035" I.D.)
PD7	Pin, straight, dip solder, .109" x .027" dia	SAD7	Socket, straight, dip solder, .109" x .027" dia
PD9	Pin, straight, dip solder, .140" x .027" dia	SAD9	Socket, straight, dip solder, .140" x .027" dia
PD11	Pin, straight, dip solder, .172" x .027" dia	SAD11	Socket, straight, dip solder, .172" x .027" dia
PD15	Pin, straight, dip solder, .234" x .027" dia	SAF3	Socket, straight, flex circuit, .050"
PF6	Pin, straight, flex circuit, .093"	SAF6	Socket, straight, flex circuit, .093"
		SAF9	Socket, straight, flex circuit, .140"
		SAG7	Socket, straight, dip solder, .109" x .018" dia
		SAG9	Socket, straight, dip solder, .140" x .018" dia
		SAG11	Socket, straight, dip solder, .172" x .018" dia
		SAP	Socket, straight, pin termination .150", connector saver
		SAW24	Socket, straight, wire wrap [®] , .375"
		SAW40	Socket, straight, wire wrap [®] , .625"
		SOR7	Socket, right angle, dip solder, .109" x .025" dia
		SOR9	Socket, right angle, dip solder, .140" x .025" dia
		SOR11	Socket, right angle, dip solder, .172" x .025" dia

HARDWARE

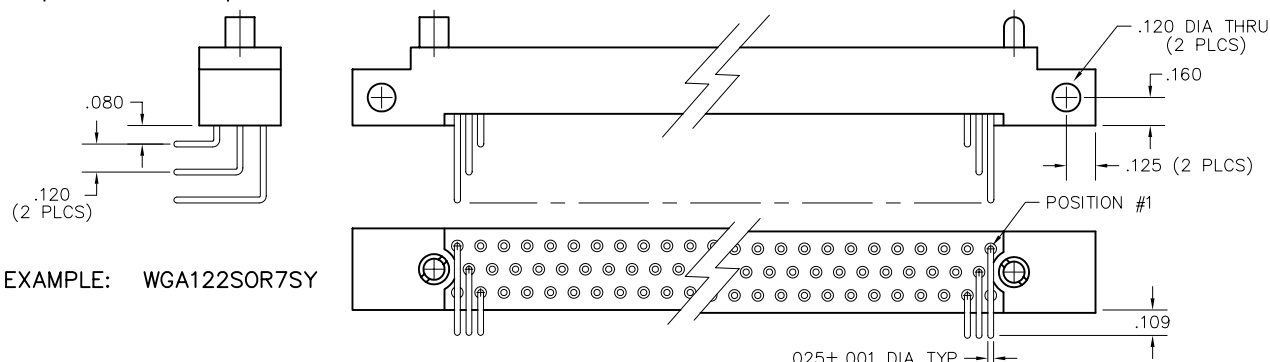
- Plug facial seal gaskets and hoods; order separately or add "Q" in part number. Example: WGA122PD9QJ. See "Gaskets" and "Hoods" in Accessories section for instructions.

SY	Guide set	SY	Guide set
SY-#	Guide set, polarized	SY-#	Guide set, polarized
SYL	Guide set, long	SYL	Guide set, long
J	Fixed jackset	J	Fixed jackset
JL	Fixed jackset, long	JL	Fixed jackset, long
JT	Turning jackset, .460"	JT	Turning jackset, .460"
JTA	Turning jackset, .160"	JTA	Turning jackset, .160"
JTB	Hex turning jackset, .160"	JTB	Hex turning jackset, .160"
JTC	Hex turning jackset, .460"	JTC	Hex turning jackset, .460"
JTL	Turning jackset, long, .660"	JTL	Turning jackset, long, .660"

OPTIONS

- Option Codes: Add to the end of the part number. Example: WGA122PD9SY-D01. Call factory for additional codes.
- 342 Remove mounting ears, (.250" each end)
- B82 Termination face sealed against conformal coating
- D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).
- G69 Solder cups fixed in an outward orientation (otherwise contacts will rotate)

☒ = Option not RoHS compliant



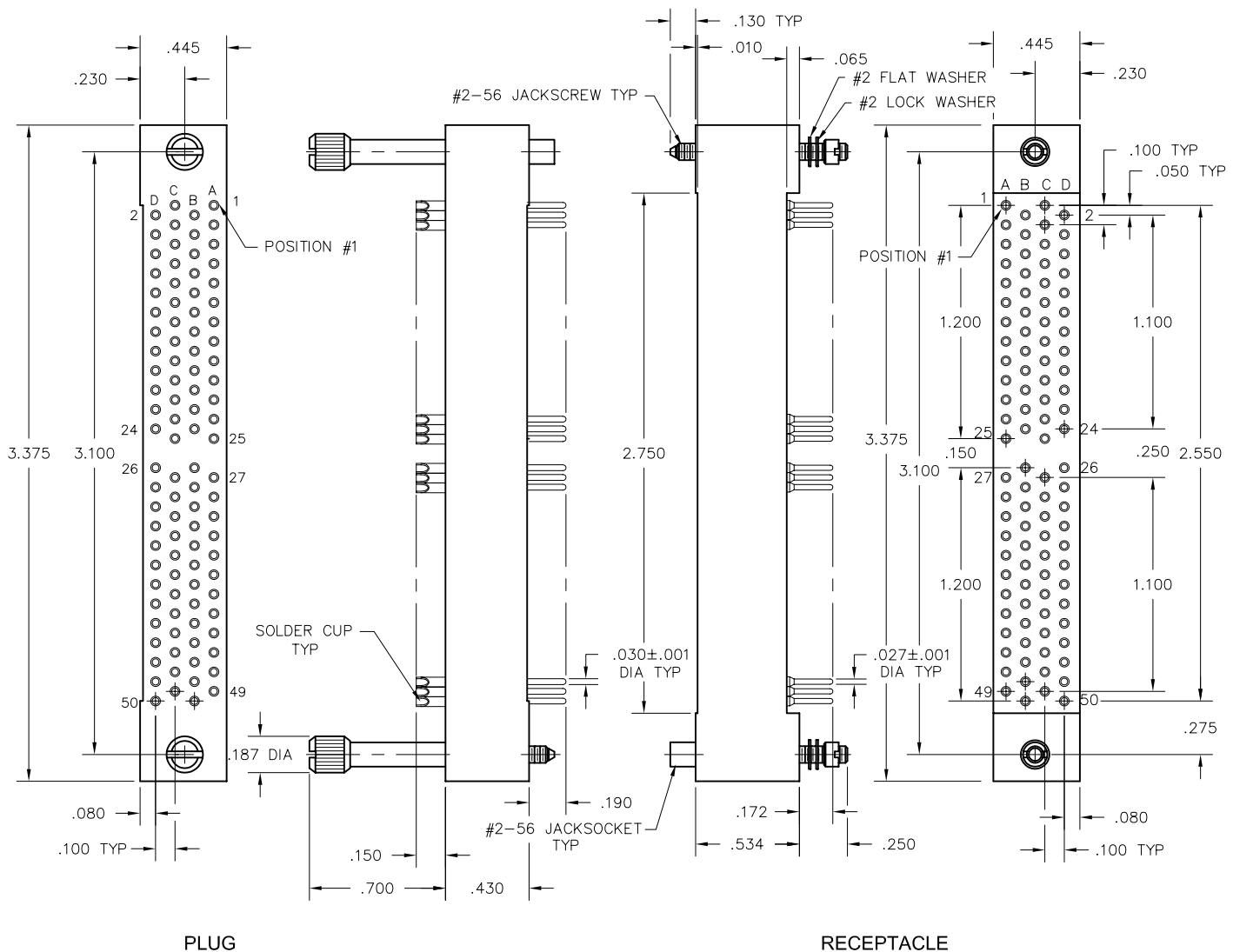
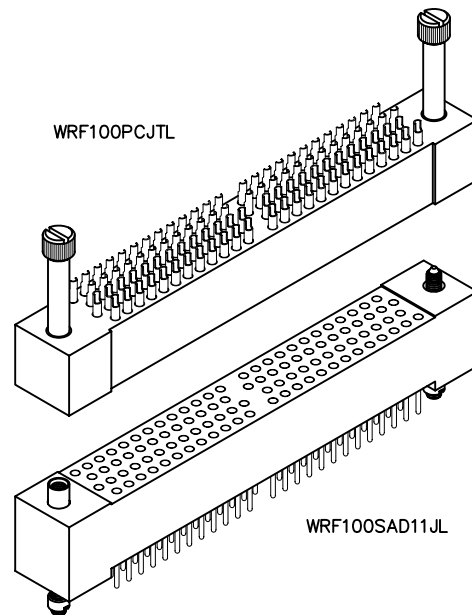
4 • ROW

Cable to Board or Panel

.100"

WRF - WRF

100 Contacts



PLUG: WRF 100 PC JTL
 RECEPTACLE: WRF 100 SAD11 JL
 XXX XXX XXXXX XXX

PLUG

RECEPTACLE

SERIES	
WRF	Plug, straight, without mounting ears

WRF Receptacle, straight, without mounting ears

SIZE	
------	--

100 Number of contacts

100 Number of contacts

CONTACTS	
----------	--

- Contact identification: Looking at the mating face of the connector, each contact has a double indicator designation, including a row letter and a position number. Rows "A" & "C" contain odd numbers 1 thru 49; rows "B" & "D" contain even numbers 2 thru 50.

TYPE CONTACTS/TERMINATIONS:

PC Pin, straight, solder cup
 PD11 Pin, straight, dip solder, .172" x .027" dia
 PF6 Pin, straight, flex circuit, .093"

TYPE CONTACTS/TERMINATIONS:

SAC Socket, straight, solder cup (.035" I.D.)
 SAD9 Socket, straight, dip solder, .140" x .027" dia
 SAD11 Socket, straight, dip solder, .172" x .027" dia
 SAP Socket, straight, pin termination .150", connector saver

HARDWARE	
----------	--

JTB Hex turning jackset, .200"
 JTL Long turning jackset, .700"

J Fixed jackset
 JL Fixed jackset, long

OPTIONS	
---------	--

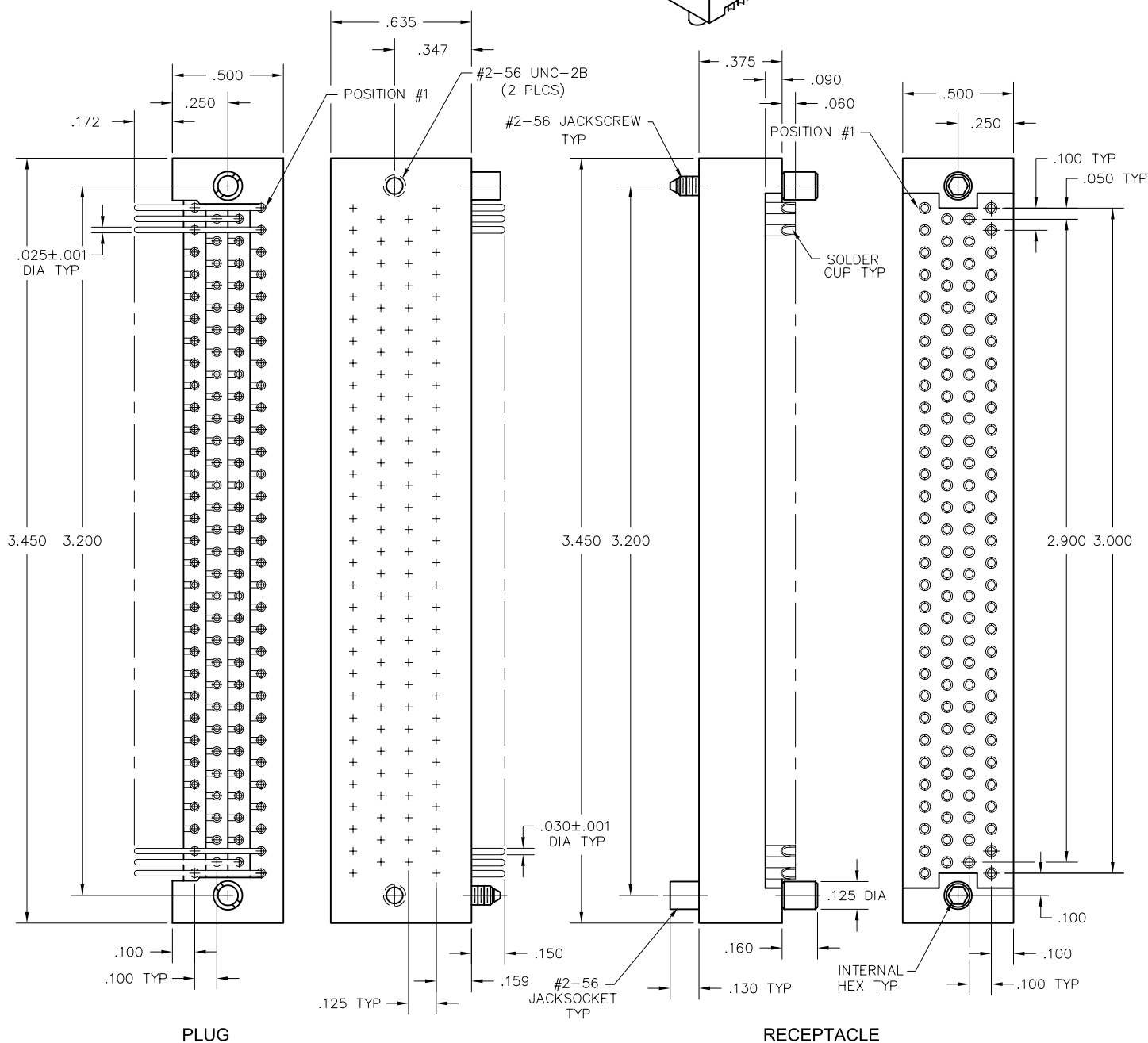
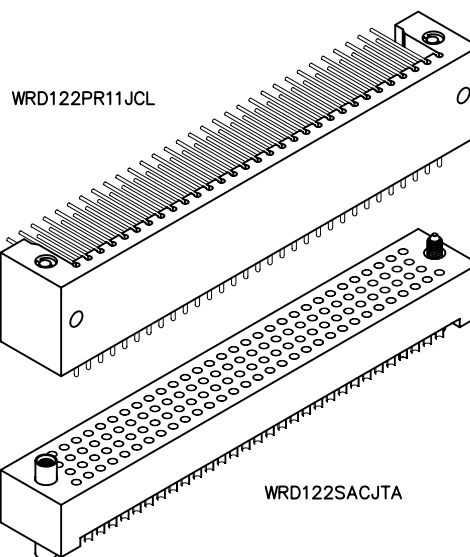
- Option Codes: Add to the end of the part number. Example: WRF100SAD11JL-D54. Call factory for additional codes.
 - B82 Termination face sealed against conformal coating
 - D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
 - P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).
 - D54 Combine -B82 & -D01 special codes
- ☒ = Option not RoHS compliant

4 • ROW PC Card to Board or Chassis

.100"

WRD - WRD

122 Contacts





PLUG: WRD 122 PR11 JCL
RECEPTACLE: WRD 122 SAC JTA
XXX XXX XXXX XXX

PLUG

RECEPTACLE

SERIES	
WRD	Plug, right angle, without mounting ears
WRD	Receptacle, straight, without mounting ears
WRD	Receptacle, right angle, without mounting ears

SIZE	
122	Number of contacts
122	Number of contacts

CONTACTS	
TYPE CONTACTS/TERMINATIONS:	
PR5	Pin, right angle, dip solder, .078" x .025" dia
PR7	Pin, right angle, dip solder, .109" x .025" dia
PR9	Pin, right angle, dip solder, .140" x .025" dia
PR11	Pin, right angle, dip solder, .172" x .025" dia
TYPE CONTACTS/TERMINATIONS:	
SAC	Socket, straight, solder cup (.035" I.D.)
SAD7	Socket, straight, dip solder, .109" x .027" dia
SAD9	Socket, straight, dip solder, .140" x .027" dia
SAD11	Socket, straight, dip solder, .172" x .027" dia
SAD15	Socket, straight, dip solder, .234" x .027" dia
SAF3	Socket, straight, flex circuit, .050"
SAF6	Socket, straight, flex circuit, .093"
SAG7	Socket, straight, dip solder, .109" x .018" dia
SAG9	Socket, straight, dip solder, .140" x .018" dia
SAG11	Socket, straight, dip solder, .172" x .018" dia
SAP	Socket, straight, pin termination .150", connector saver
SOR9	Socket, right angle, dip solder, .140"

HARDWARE	
SYCL	Guide set, cross hole mount
SYCL-#	Guide set, cross hole mount, polarized
JCL	Fixed jackset, cross hole mount
JTB	Turning jackset, no cross hole
J	Fixed Jackset
JTA	Turning jackset, .160"
JTB	Hex turning jackset, .160"
JTL	Long turning jackset, .640"
SY	Guide set
SY-#	Guide set, polarized

OPTIONS

- Option Codes: Add to the end of the part number. Example: WRD122SAD9SY-D54. Call factory for additional codes.
 - B82 Termination face sealed against conformal coating
 - D01 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with 63/37 or 60/40 solder. ☒
 - P39 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free).
 - D54 Combine -B82 & -D01 special codes
- ☒ = Option not RoHS compliant

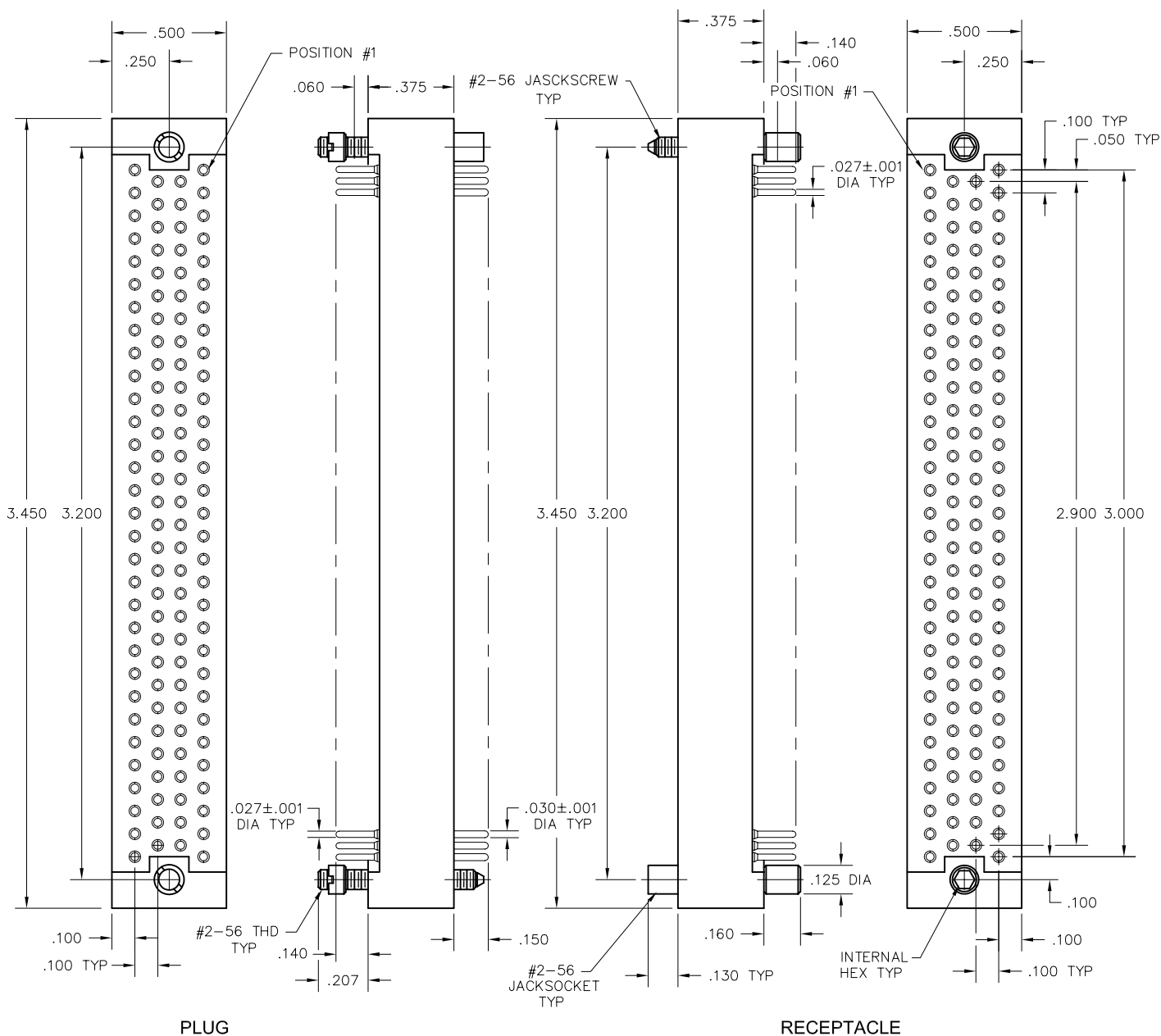
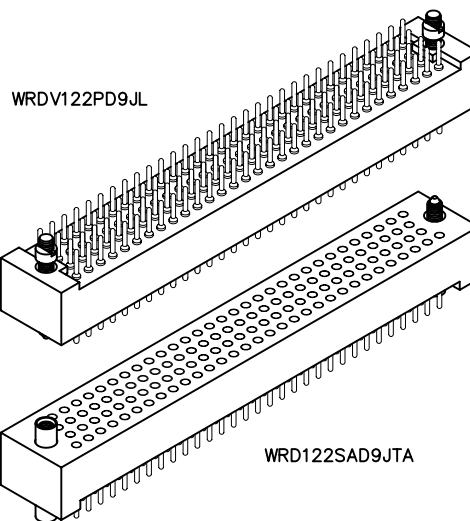
4 • ROW

Sandwich Boards

.100"

WRDV - WRD

122 Contacts



PLUG: WRDV 122 PD9 JL
RECEPTACLE: WRD 122 SAD9 JTA
XXXX XXX XXXX XXX

PLUG

RECEPTACLE

SERIES	
WRDV	Plug, straight, without mounting ears
WRD	Receptacle, straight, without mounting ears
WRD	Receptacle, right angle, without mounting ears

SIZE	
122	Number of contacts
122	Number of contacts

CONTACTS

- Pin or socket contacts can be used in either plug or receptacle.
- When pin contacts are used, standard hardware orientation places the female hardware next to the #1 pin contact.
- When socket contacts are used, standard hardware orientation places the male hardware next to the #1 socket contact.

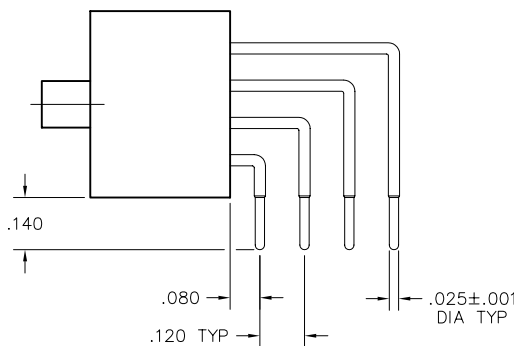
TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:	
PC	Pin, straight, solder cup (.035" I.D.)	SAC	Socket, straight, solder cup (.035" I.D.)
PD7	Pin, straight, dip solder, .109" x .027" dia	SAD7	Socket, straight, dip solder, .109" x .027" dia
PD9	Pin, straight, dip solder, .140" x .027" dia	SAD9	Socket, straight, dip solder, .140" x .027" dia
PD11	Pin, straight, dip solder, .172" x .027" dia	SAD11	Socket, straight, dip solder, .172" x .027" dia
PD15	Pin, straight, dip solder, .234" x .027" dia	SAD15	Socket, straight, dip solder, .234" x .027" dia
		SAF3	Socket, straight, flex circuit, .050"
		SAF6	Socket, straight, flex circuit, .093"
		SAG7	Socket, straight, dip solder, .109" x .018" dia
		SAG9	Socket, straight, dip solder, .140" x .018" dia
		SAG11	Socket, straight, dip solder, .172" x .018" dia
		SAP	Socket, straight, pin termination .150", connector saver
		SOR9	Socket, right angle, dip solder, .140" x .025" dia

HARDWARE

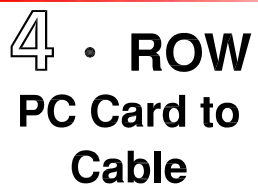
J	Fixed jackset	J	Fixed jackset
JL	Fixed jackset, long	JL	Fixed jackset, long
JTA	Turning jackset, .160"	JTA	Turning jackset, .160"
JTB	Hex turning jackset, .160"	JTB	Hex turning jackset, .160"
JTL	Long turning jackset, .660"	JTL	Long turning jackset, .660"
SY	Guide set	SY	Guide set
SY-#	Guide set, polarized	SY-#	Guide set, polarized

OPTIONS

- Option Codes: Add to the end of the part number. Example: WRD122SAD9SY-D01. Call factory for additional codes.
 - B82 Termination face sealed against conformal coating
 - D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
 - P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).
 - D54 Combine -B82 & -D01 special codes
- ☒ = Option not RoHS compliant



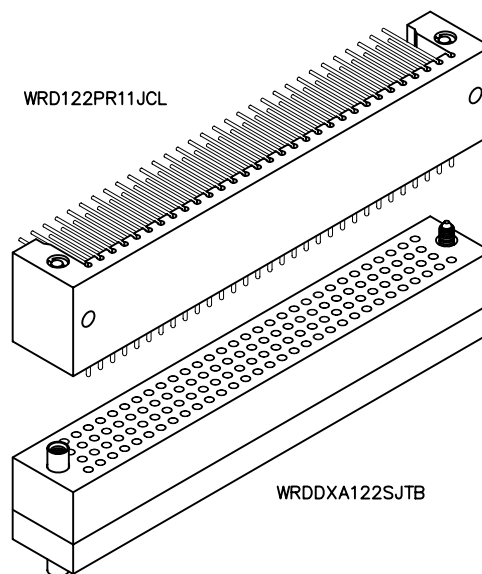
EXAMPLE: WRD122SOR9J



.100"

WRD - WRDDXA

WRD122PR11JCL



WRDDXA122SJTB



RECEPTACLE

PLUG: WRD 122 PR11 JCL
 RECEPTACLE: WRDDXA 122 S JTB
 XXXXX XX XXX XX

PLUG

RECEPTACLE

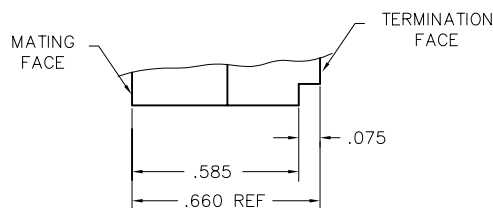
SERIES	
WRD Plug, right angle, without mounting ears	WRDDXA Receptacle, straight, crimp removable, without mounting ears
• WRDDXA mates with WRD and WRDV connectors. "A" means contacts are included.	

SIZE	
122 Number of contacts	122 Number of contacts

CONTACTS	
- The use of gaskets is not recommended with crimp socket contacts. - WRDDXA** includes full complement of WTK2222 (S or PA) crimp removable contacts packaged with connectors. See "Contacts" in Accessories section to order separately. - When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.	
TYPE CONTACTS/TERMINATIONS:	TYPE CONTACTS/TERMINATIONS:
PR7 Pin, right angle, dip solder, .109" x .025" dia	S Socket, straight, crimp removable, 22 AWG
PR9 Pin, right angle, dip solder, .140" x .025" dia	SA Same as above
PR11 Pin, right angle, dip solder, .172" x .025" dia	P Pin, straight, crimp removable, 22 AWG

HARDWARE	
JCL Fixed jackset, cross hole mount	SY Guide set
SYCL Guide set, cross hole mount	SY-# Guide set, polarized
SYCL-# Guide set, cross hole mount, polarized	SYL Guide set, long
	JTA Turning jackset, .200"
	JTB Hex turning jackset, .200"
	JTL Long turning jackset, .700"

OPTIONS	
• Option Codes: Add to the end of the part number. Example: WRDDXA122SSY-C45. Call factory for additional codes.	
-A53	Socket, straight, crimp removable, 20 AWG
-C45	Additional .075" material at termination face for strain relief of crimped wires (22 AWG only). See Detail A below.



DETAIL A

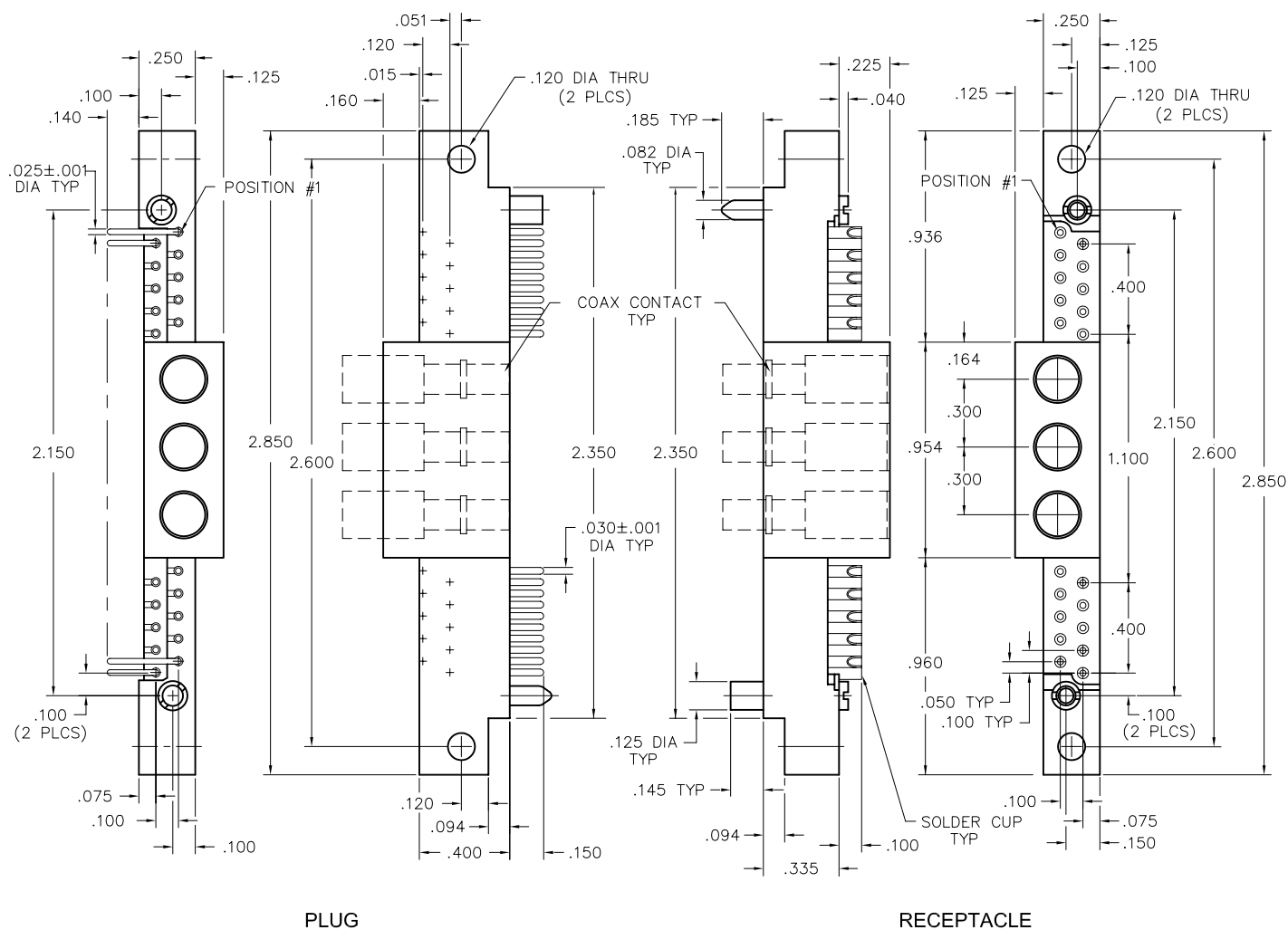
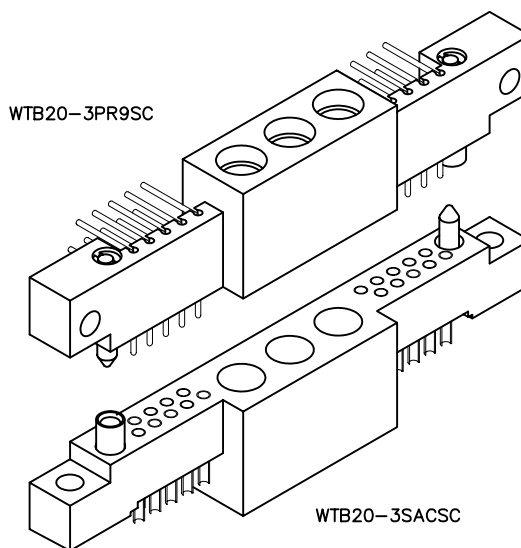
2 • ROW

Coax Connectors PC Card to Board or Chassis

.100"

WTB - WTB

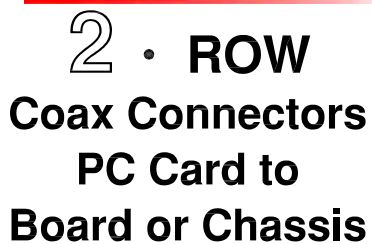
20-3 Contacts



PLUG: WTB 20-3 PR9 SC
 RECEPTACLE: WTB 20-3 SAC SC
 XXX XXXX XXX XX

PLUG		RECEPTACLE		XXX	XXXX	XXX
SERIES						
WTB	Plug, right angle, with mounting ears		WTB	Receptacle, straight, with mounting ears		
SIZE						
20-3	20 right angle signal pins, plus 3 straight or right angle removable coax sockets		20-3	20 straight signal pins, plus 3 straight removable coax pins		
CONTACTS						
TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:				
PR7	Pin, right angle, dip solder, .109" x .025" dia		SAC	Socket, straight, solder cup (.035" I.D.)		
PR9	Pin, right angle, dip solder, .140" x .025" dia		SAD9	Socket, straight, dip solder, .140" x .027" dia		
PR11	Pin, right angle, dip solder, .172" x .025" dia		SAD11	Socket, straight, dip solder, .172" x .027" dia		
			SAD15	Socket, straight, dip solder, .234" x .027" dia		
			SAG7	Socket, straight, dip solder, .109" x .018" dia		
			SAG9	Socket, straight, dip solder, .140" x .018" dia		
			SAG11	Socket, straight, dip solder, .172" x .018" dia		
HARDWARE						
SC	Guide set		SC	Guide set		
SC-#	Guide set, polarized		SC-#	Guide set, polarized		
OPTIONS						

- Molded insulator: Diallyl Phthalate per ASTM-D5948 (GDI-30F or SDG-F)
 - Removable type coax contacts sold separately. See "Coax Contacts" in Accessories section for instructions.
 - Coax Contacts:
 - WTC188P = straight pin (to be installed in receptacle insulator only)
 - WTC196P = straight pin (to be installed in receptacle insulator only)
 - WTC085P = straight pin (to be installed in receptacle insulator only)
 - WTC188S = straight socket (to be installed in plug insulator only)
 - WTC196S = straight socket (to be installed in plug insulator only)
 - WTC085S = straight socket (to be installed in plug insulator only)
 - WTC10SRD9 = right angle socket (to be installed in plug insulator only)
 - Option Codes: Add to the end of the part number. Example: WTB20-3SAD11SC-C34. Call factory for additional codes.
 - 342 Remove mounting ears. (.250" each end)
 - C34 Remove .225" standoff so connector is flush to board (receptacle only).
 - G69 Solder cups are fixed in an outward orientation, otherwise contacts can rotate.
 - D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
 - P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).
- ☒ = Option not RoHS compliant



WTB - WTB



REV A
CTW069

PLUG: WTB 20-6 PR9 SC
 RECEPTACLE: WTB 20-6 SAC SC
 XXX XXXX XXX XX

PLUG		RECEPTACLE		XXX	XXXX	XXX
SERIES						
WTB	Plug, right angle, with mounting ears		WTB	Receptacle, straight, with mounting ears		
SIZE						
20-6	20 right angle signal pins, plus 6 straight or right angle removable coax sockets		20-6	20 straight signal pins, plus 6 straight removable coax pins		
CONTACTS						
TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:				
PR7	Pin, right angle, dip solder, .109" x .025" dia		SAC	Socket, straight, solder cup (.035" I.D.)		
PR9	Pin, right angle, dip solder, .140" x .025" dia		SAD9	Socket, straight, dip solder, .140" x .027" dia		
PR11	Pin, right angle, dip solder, .172" x .025" dia		SAD11	Socket, straight, dip solder, .172" x .027" dia		
			SAD15	Socket, straight, dip solder, .234" x .027" dia		
			SAG7	Socket, straight, dip solder, .109" x .018" dia		
			SAG9	Socket, straight, dip solder, .140" x .018" dia		
			SAG11	Socket, straight, dip solder, .172" x .018" dia		
HARDWARE						
SC	Guide set		SC	Guide set		
SC-#	Guide set, polarized		SC-#	Guide set, polarized		
OPTIONS						

- Molded insulator: Diallyl Phthalate per ASTM-D5948 (GDI-30F or SDG-F)
 - Removable type coax contacts sold separately. See "Coax Contacts" in Accessories section for instructions.
 - Coax Contacts:
 - WTC188P = straight pin (to be installed in receptacle insulator only)
 - WTC196P = straight pin (to be installed in receptacle insulator only)
 - WTC085P = straight pin (to be installed in receptacle insulator only)
 - WTC188S = straight socket (to be installed in plug insulator only)
 - WTC196S = straight socket (to be installed in plug insulator only)
 - WTC085S = straight socket (to be installed in plug insulator only)
 - WTC10SRD9 = right angle socket (to be installed in plug insulator only)
 - Option Codes: Add to the end of the part number. Example: WTB20-6SAD9SC342. Call factory for additional codes.
 - 342 Remove mounting ears. (.250" each end)
 - C34 Remove .225" standoff so connector is flush to board (receptacle only).
 - G69 Solder cups are fixed in an outward orientation, otherwise contacts can rotate.
 - D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
 - P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC305 solder (lead free).
- ☒ = Option not RoHS compliant

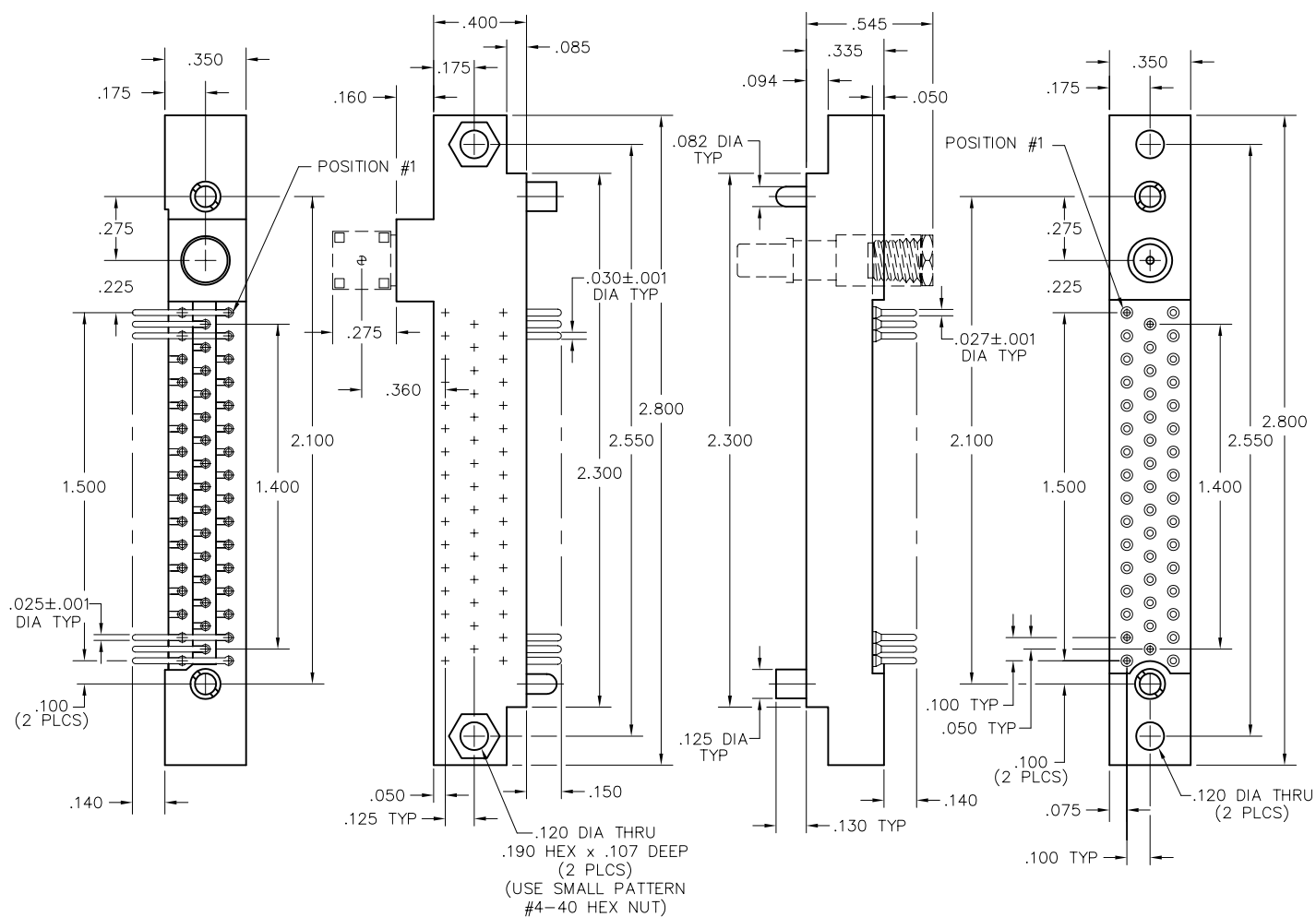
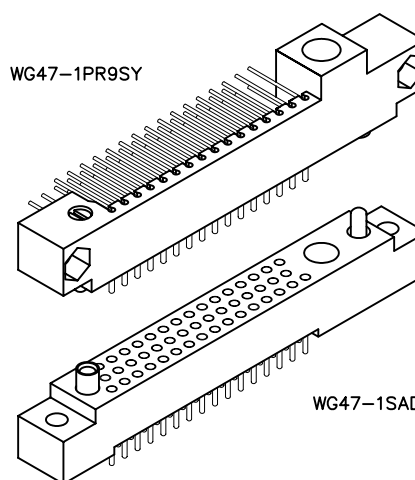


3 • ROW Coax Connectors PC Card to Chassis or Board

.100"

WG - WG

47-1 Contacts



RIGHT ANGLE
COAX CONTACT

PLUG

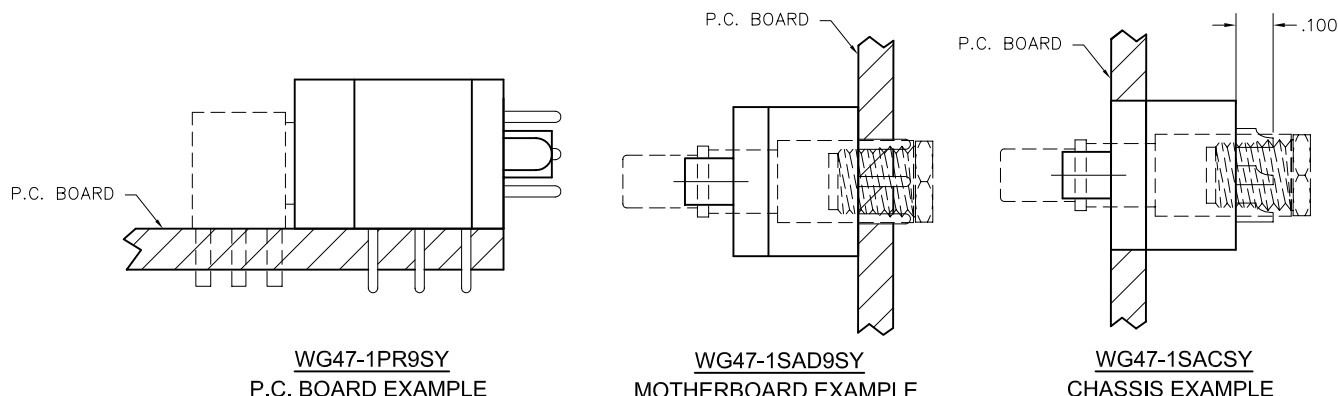
COAX CONTACT

RECEPTACLE

PLUG: WG 47-1 PR11 SY
 RECEPTACLE: WG 47-1 SAD9 SY
 XX 47-1 XXXX XX

PLUG		RECEPTACLE		XX	47-1	XXXX
SERIES						
WG	Plug, right angle, with mounting ears		WG	Receptacle, straight, with mounting ears		
SIZE						
47-1	47 right angle signal pins, plus 1 right angle or straight removable coax socket		47-1	47 straight signal pins, plus 1 straight removable coax pin		
CONTACTS						
TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:				
PR7	Pin, right angle, dip solder, .109" x .025" dia		SAC	Socket, straight, solder cup (.035" I.D.)		
PR9	Pin, right angle, dip solder, .140" x .025" dia		SAD9	Socket, straight, dip solder, .140" x .027" dia		
PR11	Pin, right angle, dip solder, .172" x .025" dia		SAD11	Socket, straight, dip solder, .172" x .027" dia		
			SAD15	Socket, straight, dip solder, .234" x .027" dia		
			SAG7	Socket, straight, dip solder, .109" x .018" dia		
			SAG9	Socket, straight, dip solder, .140" x .018" dia		
			SAG11	Socket, straight, dip solder, .172" x .018" dia		
HARDWARE						
SY	Guide set		SY	Guide set		
SY-#	Guide set, polarized		SY-#	Guide set, polarized		

- OPTIONS**
- Molded insulator (plug only): Diallyl Phthalate per ASTM-D5948 (GDI-30F or SDG-F)
 - Removable type coax contacts sold separately. See "Coax Contacts" in Accessories section for instructions.
 - Coax Contacts:
 - WTC188P = straight pin (to be installed in receptacle insulator only)
 - WTC196P = straight pin (to be installed in receptacle insulator only)
 - WTC085P = straight pin (to be installed in receptacle insulator only)
 - WTC188S = straight socket (to be installed in plug insulator only)
 - WTC196S = straight socket (to be installed in plug insulator only)
 - WTC085S = straight socket (to be installed in plug insulator only)
 - WTC10SRD9 = right angle socket (to be installed in plug insulator only)
 - Option Codes: Add to the end of the part number. Example: WG47-1SACSY-C34. Call factory for additional codes.
 - 342 Remove mounting ears. (.250" each end)
 - 548 Bond #4-40 small pattern nut into mounting holes (for right angle plug connectors only).
 - C34 Remove .225" standoff so connector is flush to board (receptacle only).
 - G69 Solder cups are fixed in an outward orientation, otherwise contacts can rotate.
 - D01 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with 63/37 or 60/40 solder. ☒
 - P39 Pretinned contact terminations (except solder cups, wire wraps[®] and flex contacts) with SAC 305 solder (lead free).
- ☒ = Option not RoHS compliant





1 • ROW

Coax Connectors

PC Card to Chassis

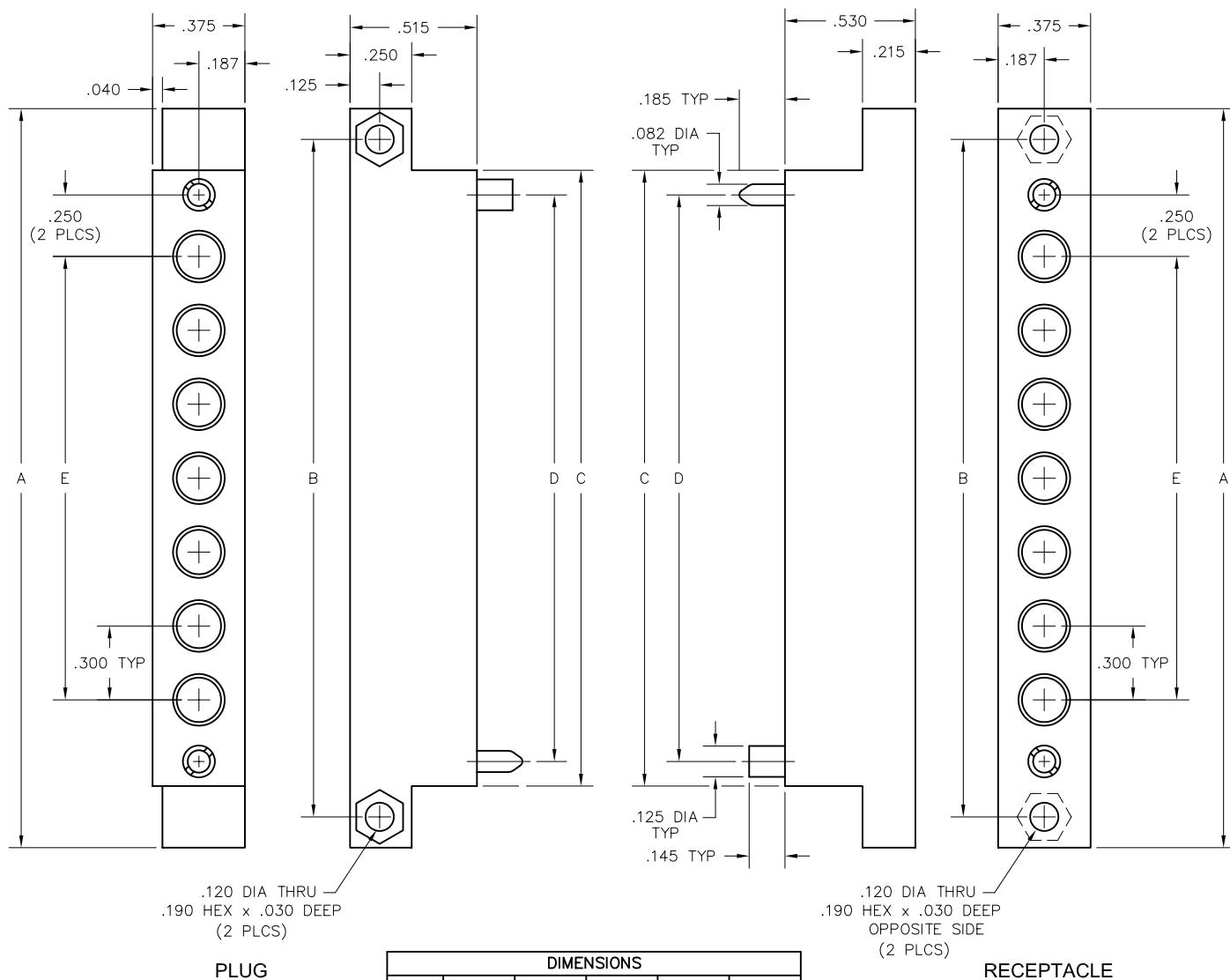
.300"

WRBC - WRBC

1, 7 & 11 Contacts

WRBC7RSC

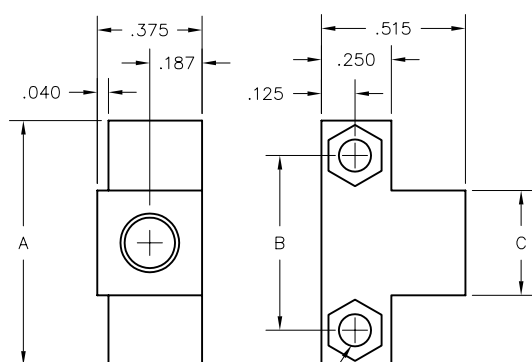
WRBC7TSC



PLUG:	WRBC	7	R	SC
RECEPTACLE:	WRBC	7	T	SC
	XXXX	XX	X	XX

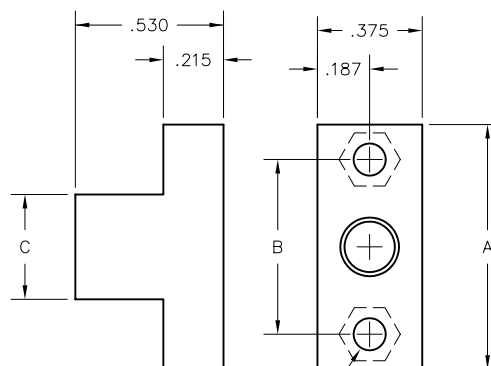
PLUG		RECEPTACLE	
SERIES			
WRBC Plug, right angle, with mounting ears	WRBC Receptacle, straight, with mounting ears		
SIZE			
XX Number of coax contacts (1, 7 or 11)	XX Number of coax contacts (1, 7 or 11)		
CONTACTS			
R TYPE CONTACTS/TERMINATIONS: Sockets, straight or right angle, removable coax contacts	T TYPE CONTACTS/TERMINATIONS: Pins, straight, removable coax contacts		
HARDWARE			
SC Guide set	SC Guide set		
SC-# Guide set, polarized	SC-# Guide set, polarized		
OPTIONS			

- Removable type coax contacts sold separately. See "Coax Contacts" in Accessories section for instructions.
- Coax Contacts:
 - WTC188P = straight pin (to be installed in receptacle insulator only)
 - WTC196P = straight pin (to be installed in receptacle insulator only)
 - WTC085P = straight pin (to be installed in receptacle insulator only)
 - WTC188S = straight socket (to be installed in plug insulator only)
 - WTC196S = straight socket (to be installed in plug insulator only)
 - WTC085S = straight socket (to be installed in plug insulator only)
 - WTC10SRD9 = right angle socket (to be installed in plug insulator only)



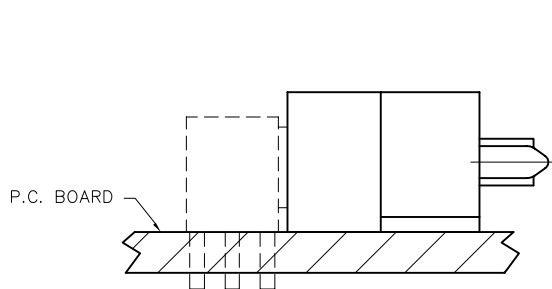
.120 DIA THRU
.190 HEX x .030 DEEP
(2 PLCS)

WRBC1R

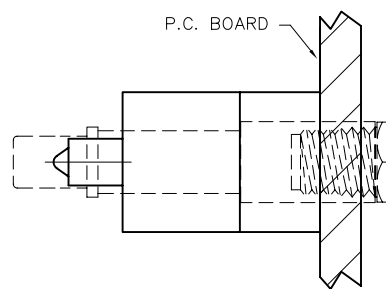


.120 DIA THRU
.190 HEX x .030 DEEP
OPPOSITE SIDE
(2 PLCS)

WRBC1T



WRBC7RSC
P.C. BOARD EXAMPLE



WRBC7TSC
MOTHERBOARD EXAMPLE

OPTIONS	
---	--

- NOTES:
- Molded bodies: Diallyl phthalate per ASTM-D5948 (GDI-30F or SDG-F)
- Contact rating: #12 contacts = 23 amps
#16 contacts = 13 amps
- Contact material: Socket - Beryllium copper, gold plated
Pin - Brass gold plated
- Contact plating: Nominal Au plating thickness is 20 microinches on mating surfaces
- Test voltage: 2000 VRMS @ sea level; 460 VRMS @ 70,000 feet
- Contact resistance: #12 contacts=.023 volt maximum drop @ 23 amps (.001 ohms)
#16 contacts=.023 volt maximum drop @ 13 amps (.002 ohms)
- Engagement force: 24 ounces maximum average per contact



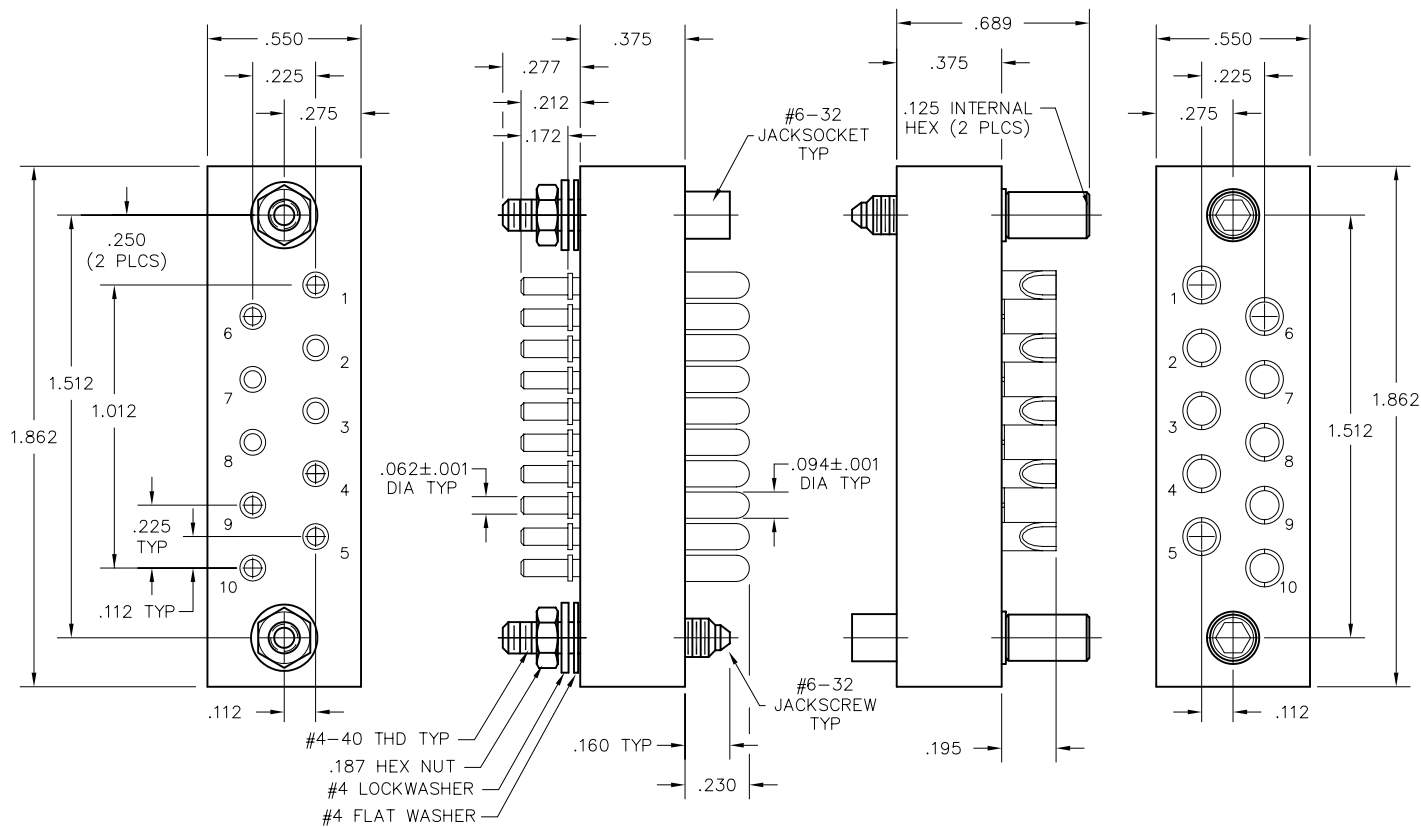
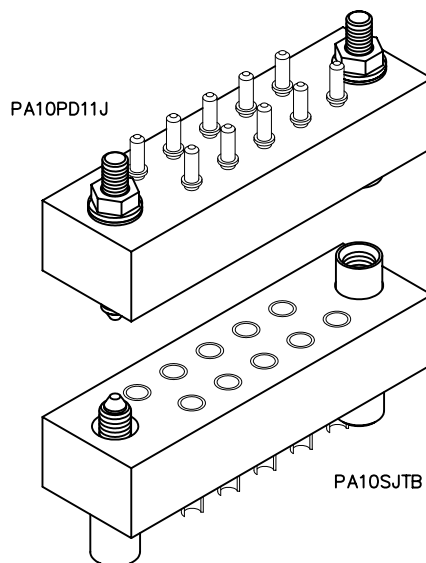


MISC. CONNECTORS Power Cable to Chassis

.225"

PA - PA

10 Contacts



PLUG

RECEPTACLE

SEE OPPOSITE PAGE FOR 10 POSITION RIGHT ANGLE PLUG CONFIGURATION.

Engagement force: 24 ounces maximum average per contact



PLUG:	PB	20	S	JTB
RECEPTACLE:	PB	20	P	J
	XX	XX	X	XXX

PLUG

RECEPTACLE

SERIES	
PB	Power connectors

SIZE	
20	20 #12 contacts

CONTACTS	
P	Pin, straight, solder cup
PD11	Pin, straight, dip solder, .172" x .062" dia
PR7	Pin, right angle, dip solder, .109" x .082" dia
PR8	Pin, right angle, dip solder, .125" x .082" dia

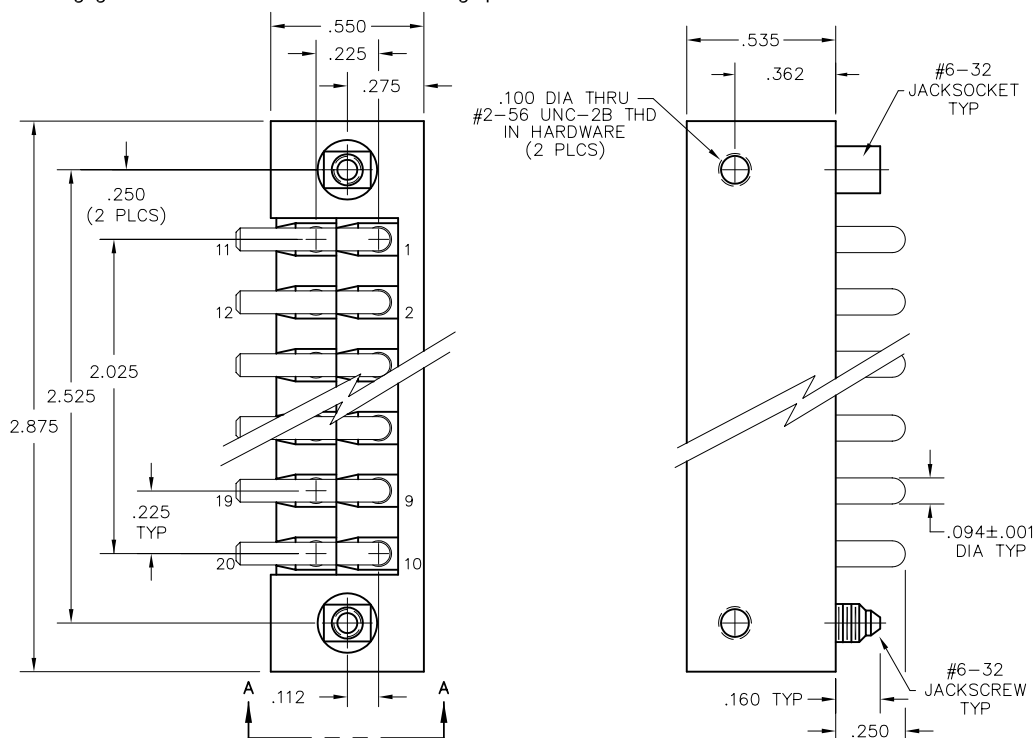
HARDWARE	
SY	Guide set
J	Fixed jackset
JT	Turning jackset, 1.054" (straight plug only)
JTB	Hex turning jackset, .314" (straight plug only)
JTL	Long turning jackset, 1.175"

OPTIONS

- Option Codes: Add to the end of the part number. Example: PA5PD11SY-P39. Call factory for additional codes.
- D01 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with 63/37 or 60/40 solder. ☒
- P39 Pretinned contact terminations (except solder cups, wire wraps® and flex contacts) with SAC305 solder (lead free).
- ☒ = Option not RoHS compliant

NOTES:

Molded bodies: Polyphenylene sulfide
 Contact rating: #12 contacts = 23 amps
 Contact material: Socket - Beryllium copper, gold plated
 Pin - Brass gold plated
 Contact plating: Nominal Au plating thickness is 20 microinches on mating surfaces
 Test voltage: 2000 VRMS @ sea level; 460 VRMS @ 70,000 feet
 Contact resistance: .023 volt maximum drop @ 23 amps (.001 ohm)
 Engagement force: 24 ounces maximum average per contact



PB20PR8J



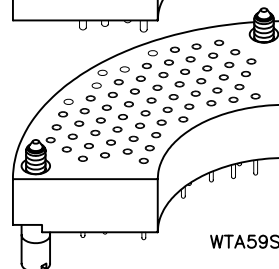
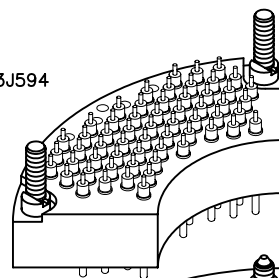
MISC CONNECTORS Quarter Round Sandwich Boards

.087" x .050"

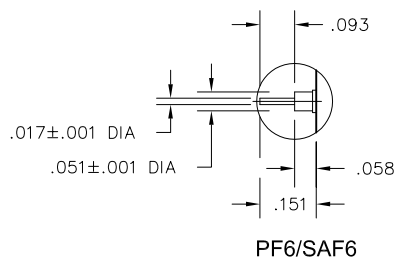
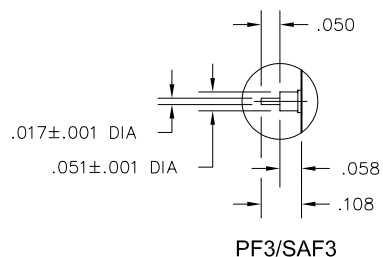
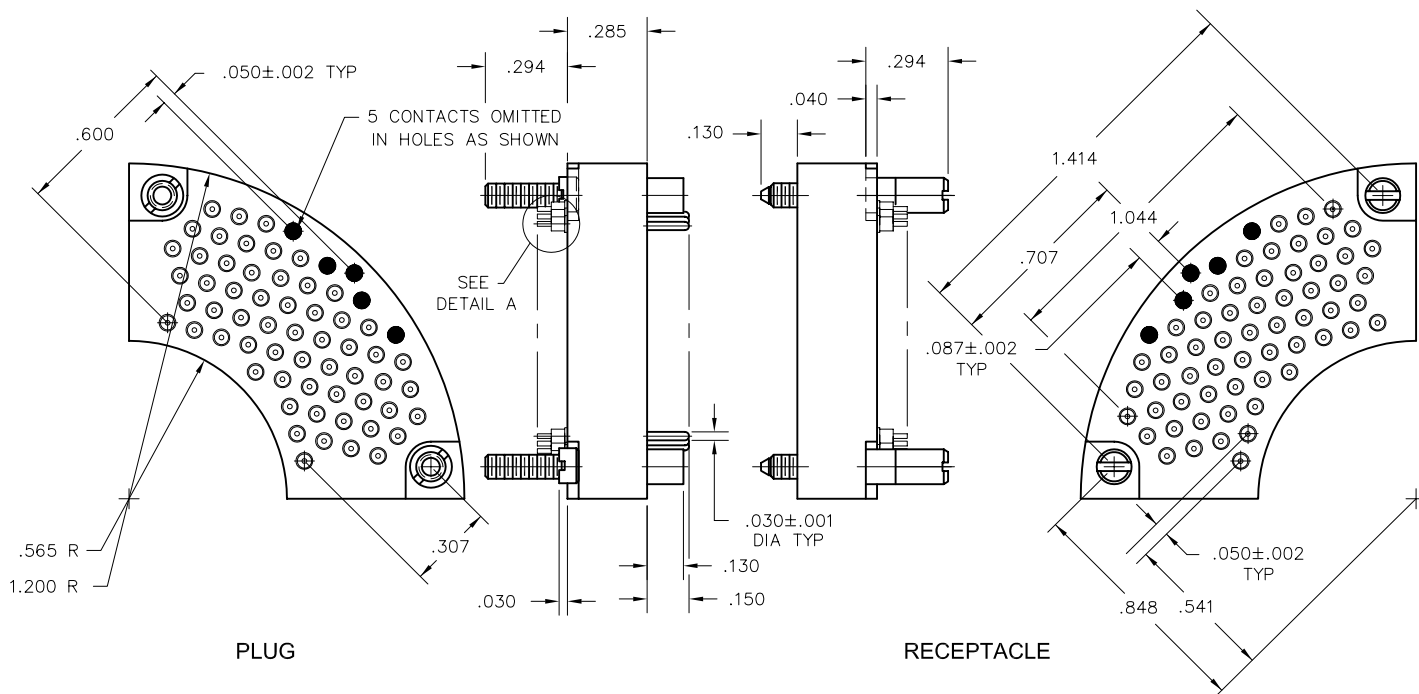
WTA - WTA

59 Contacts

WTA59PF3J594



WTA59SAF3JT594



DETAIL A

PLUG: WTA 59 PF3 J594
 RECEPTACLE: WTA 59 SAF3 JT594
 XXX XX XXXX XXXXX

PLUG		RECEPTACLE		XXX	XX	XXXX	XX
SERIES							
WTA	Plug, straight		WTA	Receptacle, straight			
SIZE							
59	Number of contacts		59	Number of contacts			
CONTACTS							
TYPE CONTACTS/TERMINATIONS:			TYPE CONTACTS/TERMINATIONS:				
PC	Pin, straight, solder cup (.035" I.D.)		SAC	Socket, straight, solder cup (.035" I.D.)			
PF3	Pin, straight, flex circuit, .050"		SAF3	Socket, straight, flex circuit, .050"			
PF6	Pin, straight, flex circuit, .093"		SAF6	Socket, straight, flex circuit, .093"			
HARDWARE							
J594	Fixed jacksockets		JT594	Turning jackscrews, slot head			
			JTB594	Turning jackscrews, 5/64" internal hex head			

- OPTIONS**
- The connector is loaded with 59 contacts in a 64 position quarter round insulator (-594).
 - Insulator: glass filled nylon per ASTM-D4066.
 - Not recommended for use with lead free solder process.
 - To order connector without hardware, leave hardware designator out of part number. Example: WTA59SAF3-594.

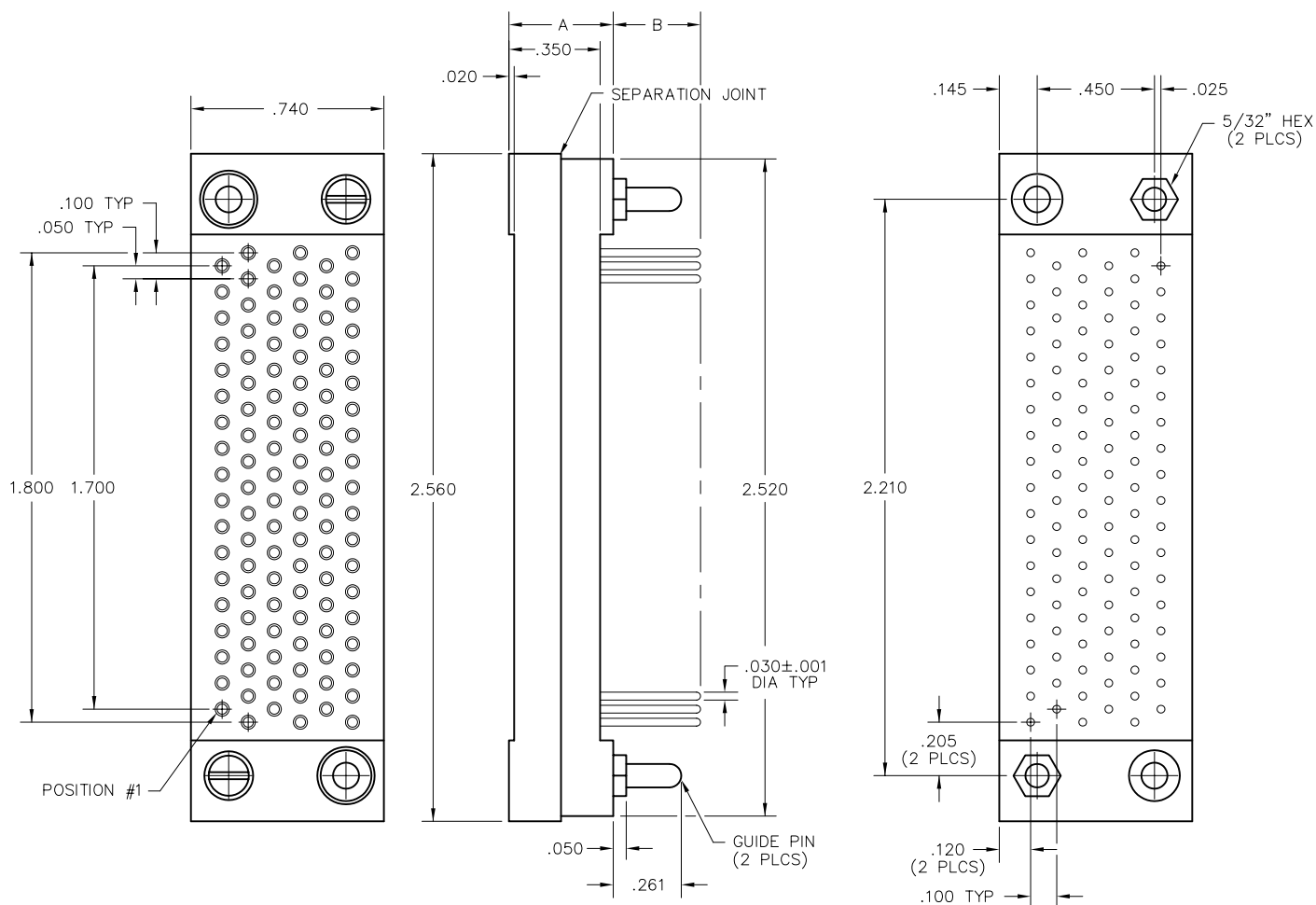
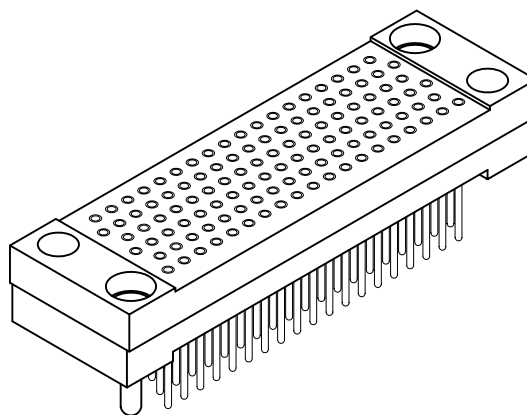


MISC CONNECTORS Stackable Board to Board

.100"

WE

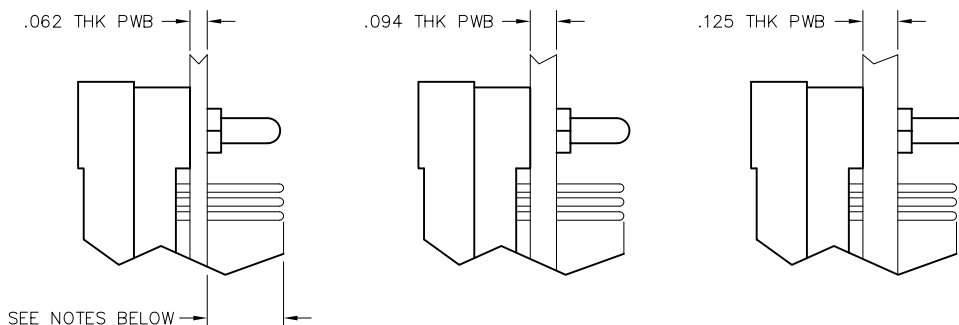
111 Contacts



DIMENSIONS			
STYLE	A	B ± .015	TYPE
WEA	.400	.335	STACKABLE
WEB	.450	.130	MOTHER BOARD
WEB	.450	.335	STACKABLE
WEC	.495	.335	STACKABLE

WEA 111 111A SP21 GB
XXX XXX XXXX XXXX XX

SERIES					
WEA	Molding height .400"				
WEB	Molding height .450"				
WEC	Molding height .495"				
SIZE					
111	Number of positions				
LOADING					
111A	Fully loaded				
CONTACTS					
TYPE CONTACTS/TERMINATIONS:					
SP21	Socket, stackable, .335" termination length				
SP9	Socket, dip solder, .130" termination length				
HARDWARE					
GA	Guide set, motherboard				
GB	Guide set, stackable				



Notes:

Dimensions "A" & "B" represent current configurations. Board thickness information is for reference only. Contacts are individually replaced by removing the guide pins and screws. Molding halves will separate at the designated joint.

For Stackable Applications:

Minimum contact termination length to be .190" beyond PWB for minimum recommended mating in this series. Maximum contact termination length to be .250" beyond PWB.

For Mother Board Applications:

Termination lengths typically extend .047" beyond PWB (example: a .062" board would typically require a .109" termination length, dimension "B").

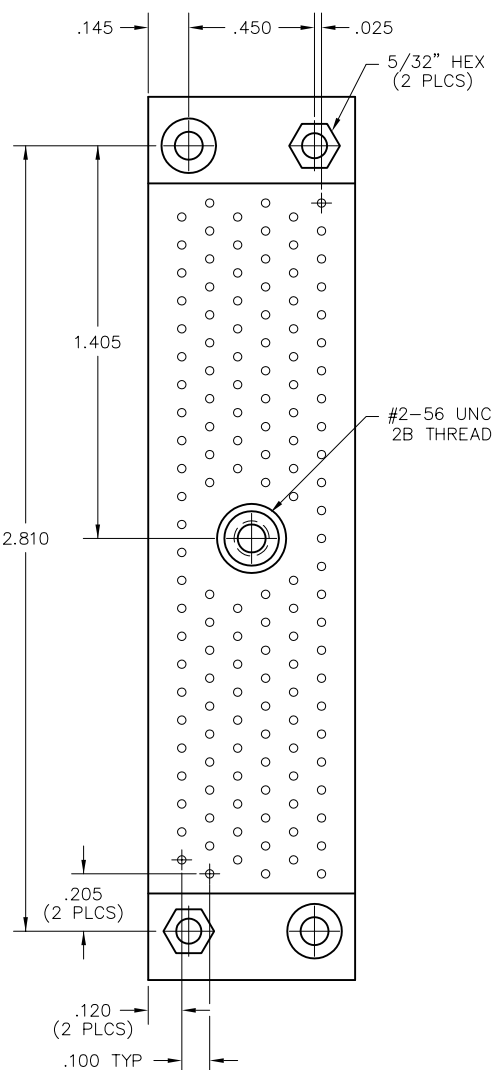
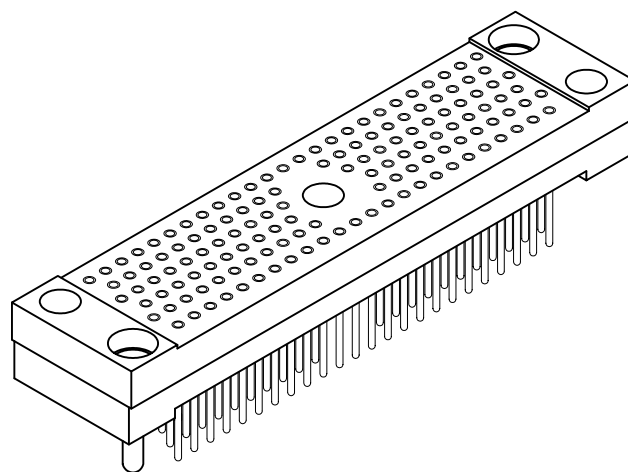
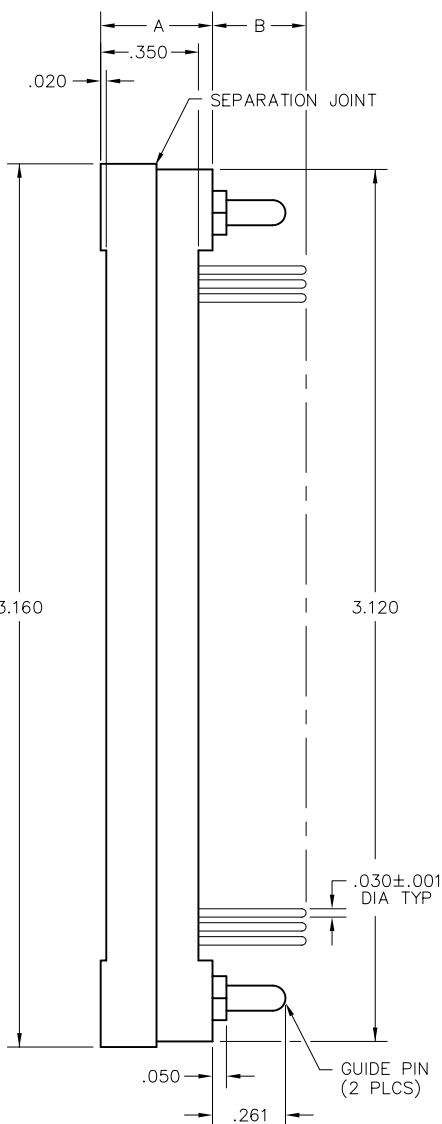
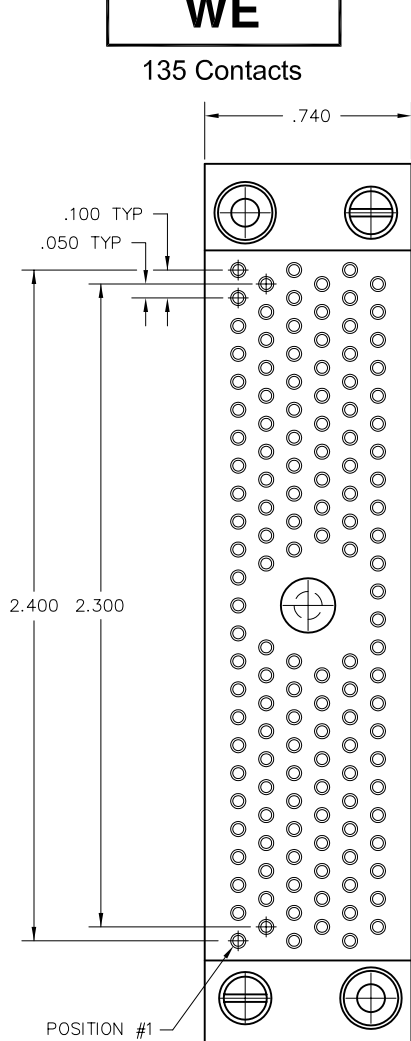


MISC CONNECTORS Stackable Board to Board

.100"

WE

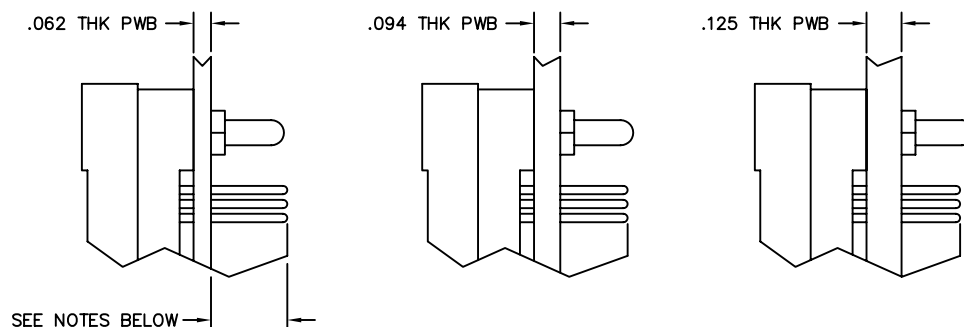
135 Contacts



DIMENSIONS			
STYLE	A	B ± .015	TYPE
WEA	.465	.335	STACKABLE
WEA	.465	.130	MOTHER BOARD
WEB	.500	.335	STACKABLE
WEB	.500	.130	MOTHER BOARD
WEC	.740	.335	STACKABLE
WEC	.740	.130	MOTHER BOARD

WEA 135 135A SP21 GB
XXX XXX XXXX XXXX XX

SERIES					
WEA	Molding height .465"				
WEB	Molding height .500"				
WEC	Molding height .740"				
SIZE					
135	Number of positions				
LOADING					
135A	Fully loaded				
CONTACTS					
TYPE CONTACTS/TERMINATIONS:					
SP21	Socket, stackable, .335" termination length				
SP9	Socket, dip solder, .130" termination length				
HARDWARE					
GA	Guide set, motherboard				
GB	Guide set, stackable				



Notes:

Dimensions "A" & "B" represent current configurations. Board thickness information is for reference only. Contacts are individually replaced by removing the guide pins and screws. Molding halves will separate at the designated joint.

For Stackable Applications:

Minimum contact termination length to be .190" beyond PWB for minimum recommended mating in this series. Maximum contact termination length to be .250" beyond PWB.

For Mother Board Applications:

Termination lengths typically extend .047" beyond PWB (example: a .062" board would typically require a .109" termination length, dimension "B").

"W" SERIES ACCESSORIES

Contents

"W" Series

Hardware, Contacts and Accessories

Accessories

WA-2	Floating Mounts
WA-4	Face Seal Gaskets for WTA-WTB Series
WA-5	Face Seal Gaskets for WG-WGA-WGE Series
WA-6	Hoods for WTA, WTAX Series
WA-7	Hoods for WTD, WTDX Series
WA-8	Adapter Sleeve, Coax Removal Tool, Extension Nuts
WA-9	Nut Spanner Wrench, Crimp & Removal Tools

Contacts

WA-10	#22 Pin Contacts, #22 Socket Contacts
WA-11	Crimp Removable Contacts, Coax Contacts

Hardware

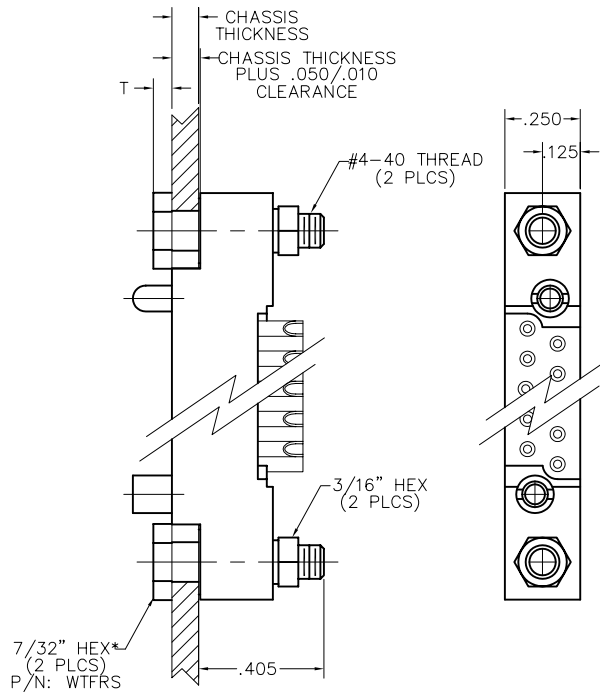
WA-12	Fixed Jacksets, Turning Jacksets
WA-14	Guide Sets
WA-15	Hardware Availability Chart
WA-17	Polarization - "D" Shaped Guide Sets
WA-18	Polarizing Pin Application

Military Cross Reference

WA-19	Military Cross Reference Chart
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Accessories

Floating Mounts for WTB-WTK Receptacles



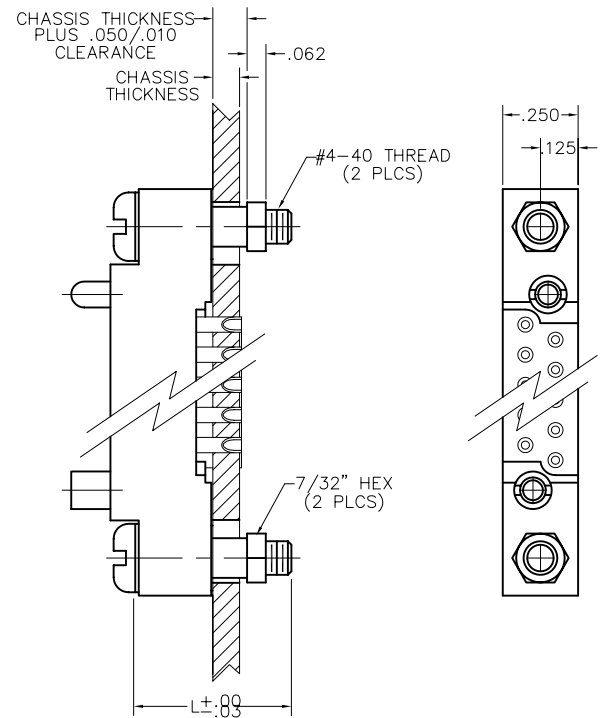
FLOATING MOUNT
REAR

DIMENSIONS			
CHASSIS THICKNESS	MOUNTING SCREW HEX HEAD	MOUNTING SCREW ROUND HEAD	T
.062	WTFRS062	WTFRAS062	.062
.093	WTFRS093	WTFRAS093	.062
.125	WTFRS125	WTFRAS125	.050

CONNECTOR SIZES 10-70 REQUIRE 2 WTFRS SCREW ASSEMBLIES.

CONNECTOR SIZES OVER 70 REQUIRE 2 WTFRS ASSEMBLIES AND ONE WTFRA SCREW ASSEMBLY.

* - 7/32 DIA ROUND HEAD - WTFRAS
CENTER POSITION ON SIZES OVER 70

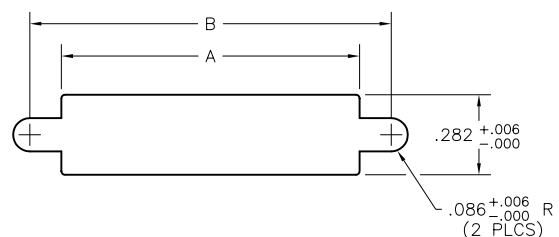


FLOATING MOUNT
FRONT

DIMENSIONS			
CHASSIS THICKNESS	BUSHING	QTY. REQ. FOR SIZES 10-70	L
.062	WTFFS062	2	.50
.093	WTFFS093		.50
.125	WTFFS125		.56

CHASSIS CUTOUT WTB-WTK, SIZES 10-70

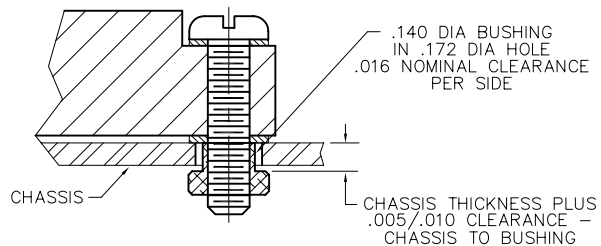
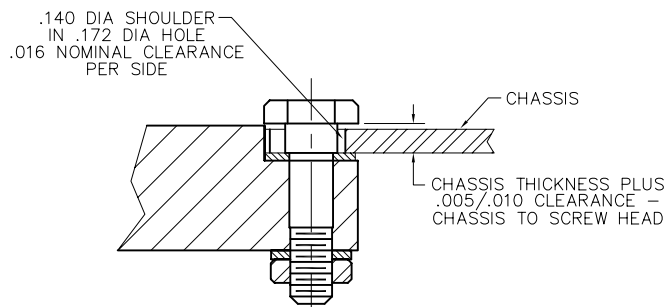
DIMENSIONS					
SIZE	A +.006 -.000	B ±.003	SIZE	A +.006 -.000	B ±.003
10	.882	1.100	44	2.582	2.800
14	1.082	1.300	50	2.882	3.100
20	1.382	1.600	54	3.082	3.300
24	1.582	1.800	56	3.182	3.400
26	1.682	1.900	60	3.382	3.600
30	1.882	2.100	66	3.682	3.900
36	2.182	2.400	70	3.882	4.100
40	2.382	2.600			



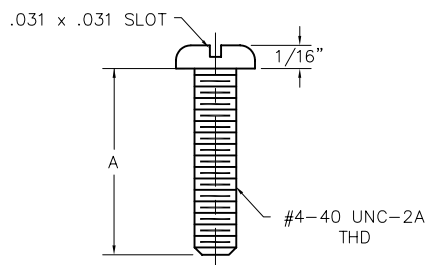
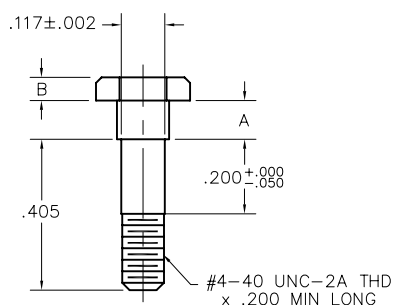


Accessories

Floating Mounts for WTB-WTK Receptacles

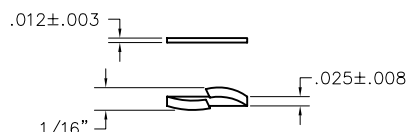


**FLOATING STUD,
HEX HEAD**
7/32±.005 HEX HEAD



**FLOATING STUD,
ROUND HEAD**
.212±.007 DIA HEAD

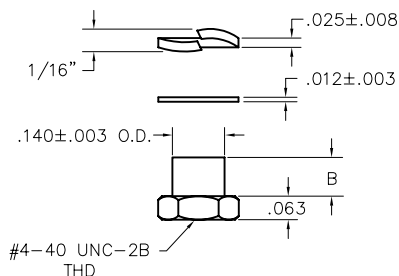
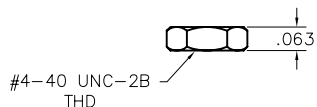
FLAT WASHER
.215 O.D. x .120 I.D.
SPLIT LOCKWASHER
.212±.015 O.D. x .115 I.D.



SPLIT LOCKWASHER
.212±.015 O.D. x .115 I.D.

FLAT WASHER
.215 O.D. x .120 I.D.

HEX NUT
3/16±.005



FLOATING BUSHING
7/32" HEX

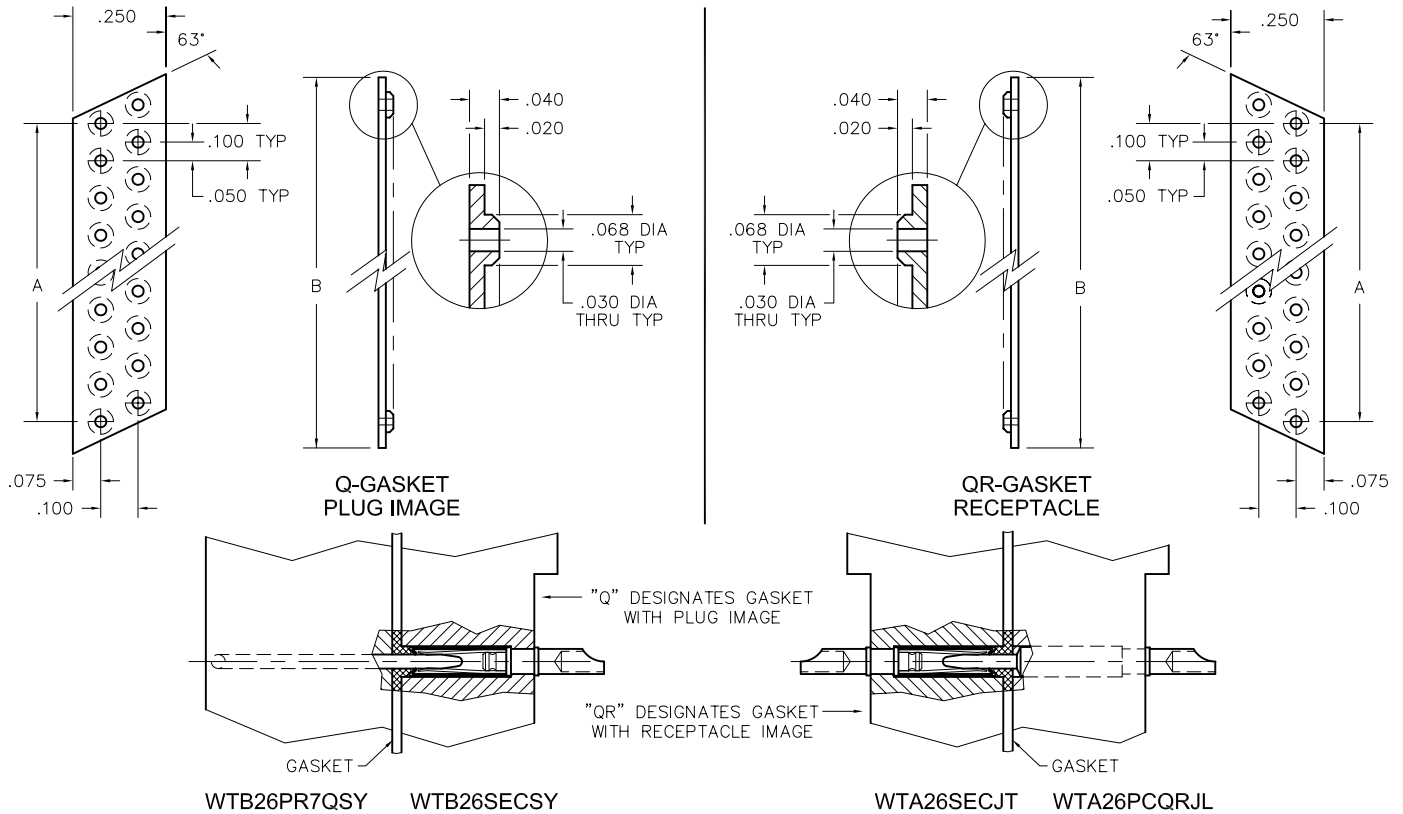
PART NUMBER	A $\begin{smallmatrix} +.000 \\ -.005 \end{smallmatrix}$	B $\begin{smallmatrix} +.000 \\ -.005 \end{smallmatrix}$	CHASSIS THICKNESS
WTFRS062	.073	.062	.062
WTFRS093	.104	.062	.093
WTFRS125	.135	.050	.125

PART NUMBER	A $\begin{smallmatrix} +.000 \\ -.030 \end{smallmatrix}$	B $\pm .003$	CHASSIS THICKNESS
WTFFS040	.439	.051	.040
WTFFS062	.500	.073	.062
WTFFS093	.500	.104	.093
WTFFS125	.562	.135	.125
WTFFS200	.625	.210	.200

PART DESCRIPTION	MATERIAL SPECIFICATION	FINISH SPECIFICATION	WTFRS	WTFRAS	WTFFS
FLOATING STUD 7/32" DIA, ROUND HEAD	SST SERIES 300 PER ASTM-A582 AND/OR QQ-S-763/766	PASSIVATE PER SAE AMS- QQ-P-35 OR ASTM-A967		X	
FLOATING STUD 7/32" HEX HEAD			X		
FLOATING BUSHING 7/32" HEX HEAD					X
MOUNTING SCREW 7/32" DIA, ROUND HEAD					X
#4 LOCKWASHER			X	X	X
#4 FLAT WASHER			X	X	X
HEX NUT #4-40			X	X	

Accessories

Face Seal Gaskets for
WTA-WTB Series



FOR CONNECTOR CODE	USE TWO GASKETS CODE NUMBER
WTB90PR	WTB45Q
WTB100PR	WTB50Q
WTB120PR	WTB60Q

NOTES:

1. DUE TO THE ELASTICITY OF SILICONE RUBBER, A & B DIMENSIONS ARE FOR REFERENCE ONLY. THE ACCUMULATIVE TOLERANCE FOR LINEAR HOLE CENTERS SHALL BE NO MORE THAN $\pm .030$ FOR EACH INCH OF SPACE BETWEEN END HOLES.
2. MATERIAL: SILICONE RUBBER, CLASS 2A OR 2B, GRADE 50 PER A-A-59588.
3. FOR USE WITH MALE (PIN) CONNECTORS ONLY.
4. CHECK SALES DEPARTMENT FOR COMBINATION CONNECTOR AND GASKET CODES. EXAMPLE: WTB26PR7QSY-1.

CODE CHART						
NO. OF CONTACTS	A	B	GASKET CODE (PLUG IMAGE)	FOR USE WITH	GASKET CODE (RCPT IMAGE)	FOR USE WITH
10	.400	.625	WTB10Q	WTA-P-JT JTA JTL	WTB10QR	WTA-P-J JL
14	.600	.825	WTB14Q		WTB14QR	
20	.900	1.125	WTB20Q		WTB20QR	
24	1.100	1.325	WTB24Q		WTB24QR	
26	1.200	1.425	WTB26Q		WTB26QR	
30	1.400	1.625	WTB30Q		WTB30QR	
36	1.700	1.925	WTB36Q		WTB36QR	
40	1.900	2.125	WTB40Q		WTB40QR	
44	2.100	2.325	WTB44Q		WTB44QR	
50	2.400	2.625	WTB50Q		WTB50QR	
54	2.600	2.825	WTB54Q	WTB-PR-SY WTBV-P-SY	WTB54QR	WTAX-P-SY SYL
56	2.700	2.925	WTB56Q		WTB56QR	
60	2.900	3.125	WTB60Q		WTB60QR	
66	3.200	3.425	WTB66Q		WTB66QR	
70	3.400	3.625	WTB70Q		_____	

Ask About AirBorn's Accelerated Delivery Service

Accessories

Face Seal Gaskets for
WG-WGA-WGE Series

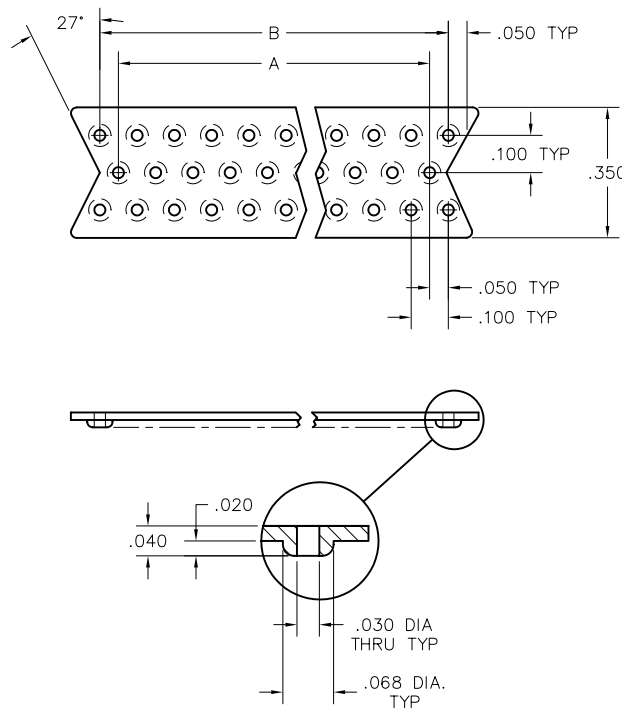


FIGURE 1

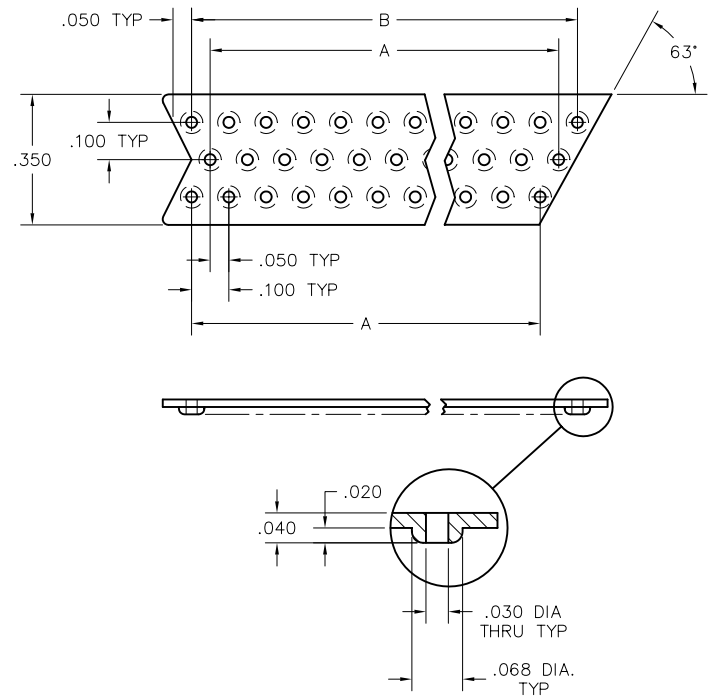


FIGURE 2

NOTES:

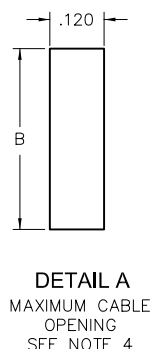
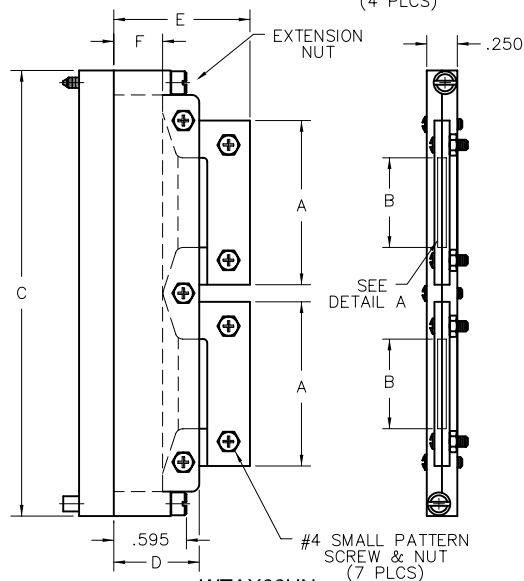
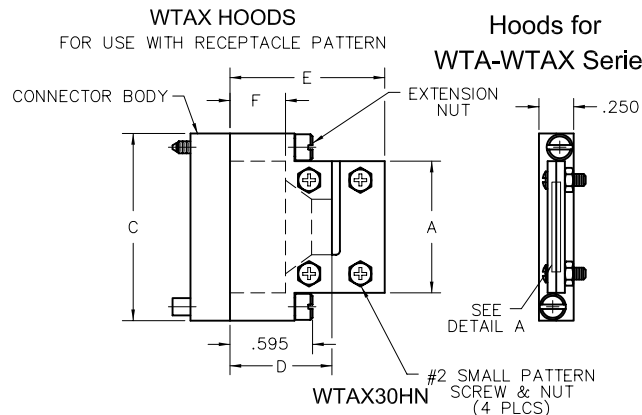
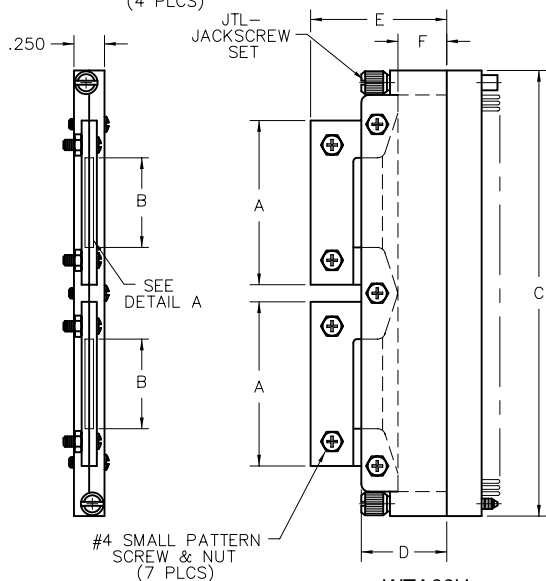
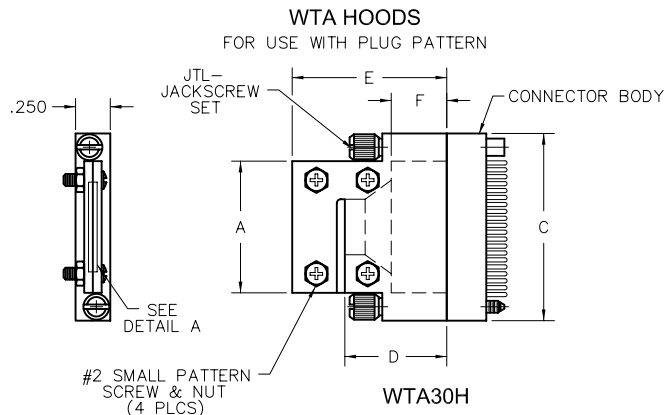
1. DUE TO THE ELASTICITY OF SILICONE RUBBER, A & B DIMENSIONS ARE FOR REFERENCE ONLY. THE ACCUMULATIVE TOLERANCE FOR LINEAR HOLE CENTERS SHALL BE NO MORE THAN ± 0.030 FOR EACH INCH OF SPACE BETWEEN END HOLES.
2. MATERIAL: SILICONE RUBBER, CLASS 2A OR 2B, GRADE 50 PER A-A-59588.
3. FOR USE WITH MALE (PIN) CONNECTORS ONLY.
4. CHECK SALES DEPARTMENT FOR COMBINATION CONNECTOR AND GASKET CODES. EXAMPLE: WG80PR7QSY-1.

CODE CHART					
NO. OF CONTACTS	A	B	FIGURE	GASKET CODE	FOR USE WITH
50	1.500	1.600	1	WG50Q	WG-P-JT JTA JTL WGV-P-SY SYL WG-PR-SY
80	2.500	2.600	1	WG80Q	
92	2.900	3.000	1	WG92Q	
61	1.900	2.000	2	WG61Q	
52	1.600	1.700	2	WG52Q	
62	1.900	2.000	1	WG62Q	
70	2.200	2.300	1	WG70Q	

FOR CONNECTOR CODE	USE TWO GASKETS CODE NUMBER
WGA122PR	WG61Q
WG104PR	WG52Q
WG160PR	WG80Q

Call (972) 931-3200 · Fax (972) 931-9305 · www.AirBorn.com

Accessories



CODE CHART																	
WTA HOODS, PLUG IMAGE							WTAX HOODS, RECEPTACLE IMAGE							PART NO. DESIGNATION			
PART NO.	A	B $\pm .015$ -.025	C	D	E	F	PART NO.	A	B $\pm .015$ -.025	C	D	E	F	SERIES	SIZE	HOOD DESIGNATION	FOR HARDWARE TYPE
WTA20H	.950	.400	1.350	.700	1.115	.400	_____	_____	_____	_____	.700	1.115	.400	WTA	20 THRU 70	H	JTL — LONG TURNING JACKSCREW SET
WTA30H	1.450	.800	1.850				WTAX30H	1.450	.800	1.850							
WTA36H	1.300	.750	2.150				WTAX36H	1.300	.750	2.150							
WTA40H	1.500	.950	2.350				WTAX40H	1.500	.950	2.350							
WTA44H	1.700	1.150	2.550				WTAX44H	1.700	1.150	2.550							
WTA50H	2.000	1.450	2.850				WTAX50H	2.000	1.450	2.850				WTAX	30 THRU 70	HN	J — FIXED JACKSCREW SET SY — GUIDE SET
WTA54H	2.200	1.650	3.050				WTAX54H	1.950	1.400	3.050							
WTA56H	2.060	1.500	3.150				WTAX56H	2.060	1.500	3.150							
WTA60H	1.240	.700	3.350				WTAX60H	1.240	.700	3.350							
WTA66H	1.350	.735	3.650				WTAX66H	1.345	.735	3.650							
WTA70H	1.445	.885	3.850				WTAX70H	1.445	.885	3.850							

NOTES:

- DIMENSIONS ARE SYMMETRICAL ABOUT CENTER LINE.
- HOODS ARE SUPPLIED UNASSEMBLED.
- HOOD MATERIAL: POLYETHYLENE, HIGH DENSITY
CLAMPING SCREWS AND NUTS: STAINLESS STEEL
- THE TOP CLAMPS ARE FLEXIBLE TO ACCOMMODATE MAXIMUM CABLE BUNDLE.
- CHECK WITH SALES DEPARTMENT FOR SIZES NOT LISTED.
- SCREWS SUPPLIED ARE CROSS-RECESS ONLY.
- TOLERANCES: $\pm .015$
- SIZES 20-30 USE #2 SMALL PATTERN SCREW & NUT.
SIZES 36-70 USE #4 SMALL PATTERN SCREW & NUT.
- HOODS CANNOT BE USED ON CONNECTORS SPECIFYING THE -C45 OPTION CODE.

EXAMPLES:

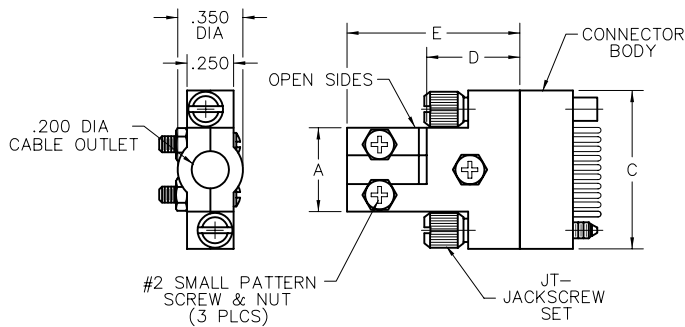
WTA**H = DESIGNATES HOOD USED WITH JTL HARDWARE
WTA**HN = DESIGNATES HOOD USED WITH J OR SY HARDWARE
(INCLUDES EXTENSION NUTS).
WTAHN = DESIGNATES EXTENSION NUTS ONLY.

** = DESIGNATES CONNECTOR SIZE. SEE PAGE WA-7 FOR
ADDITIONAL INFORMATION ON EXTENSION NUTS.

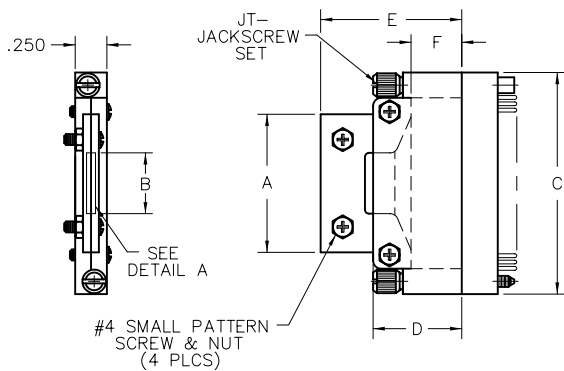
Accessories

Hoods for WTD-WTDX Series

WTD HOODS FOR USE WITH PLUG PATTERN

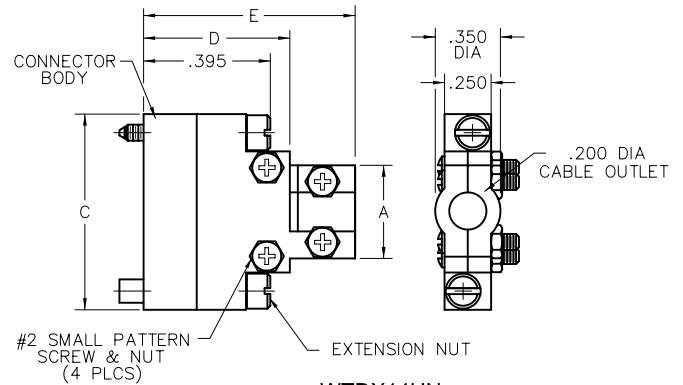


WTD10H

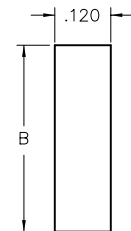


WTD26H

WTDX HOODS FOR USE WITH RECEPTACLE PATTERN



WTDX14HN



PART NO. DESIGNATION			
SERIES	SIZE	HOOD DESIGNATION	FOR HARDWARE TYPE
WTD		H	JT - TURNING JACKSCREW SET
WTDX	10, 14 & 26	HN	J - FIXED JACKSCREW SET SY - GUIDE SET

CODE CHART													
WTD HOODS, PLUG IMAGE							WTDX HOODS, RECEPTACLE IMAGE						
PART NO.	A	B $\pm .015$ -.025	C	D	E	F	PART NO.	A	B $\pm .015$ -.025	C	D	E	F
WTD10H	.450	—	.850	.500	.850	.200	WTDX10H	.450	—	.850	.500	.850	—
WTD14H	.500	—	1.050				WTDX14H	.500	—	1.050			—
WTD26H	1.090	.540	1.650					.915		WTDX26H			1.250

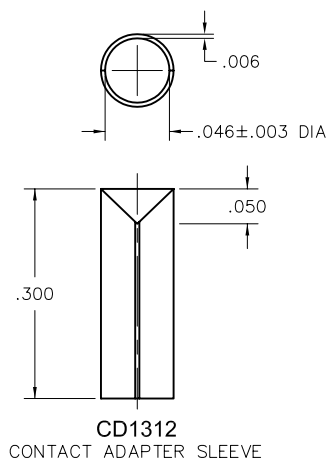
NOTES:

- DIMENSIONS ARE SYMMETRICAL ABOUT CENTER LINE.
- HOODS ARE SUPPLIED UNASSEMBLED.
- HOOD MATERIAL: POLYETHYLENE, HIGH DENSITY CLAMPING SCREWS AND NUTS: STAINLESS STEEL
- THE TOP CLAMPS ARE FLEXIBLE TO ACCOMMODATE MAXIMUM CABLE BUNDLE.
- CHECK WITH SALES DEPARTMENT FOR SIZES NOT LISTED.
- SEE PAGE WA-5 FOR WTA-WTAX SERIES HOODS.
- IF USED WITH WTA OR WTAX CONNECTORS IS DESIRED, LEAD DRESS AREA WILL BE AT A MINIMUM.
- SCREWS SUPPLIED ARE CROSS-RECESS ONLY.
- TOLERANCES: $\pm .015$
- SIZES 10 & 14 USE #2 SMALL PATTERN SCREW & NUT. SIZE 26 USE #4 SMALL PATTERN SCREW & NUT.
- HOODS CANNOT BE USED ON CONNECTORS SPECIFYING THE -C45 OPTION CODE.

EXAMPLES:

WTD**H = DESIGNATES HOOD USED WITH JT HARDWARE
 WTD**HN = DESIGNATES HOOD USED WITH J OR SY HARDWARE (INCLUDES EXTENSION NUTS).
 WTDHN = DESIGNATES EXTENSION NUTS ONLY.

** = DESIGNATES CONNECTOR SIZE. SEE PAGE WA-7 FOR ADDITIONAL INFORMATION ON EXTENSION NUTS.



EXAMPLE:
CD1312 ADAPTER SLEEVE
INSTALLED OVER SOLDER
CUP CONTACT



Accessories

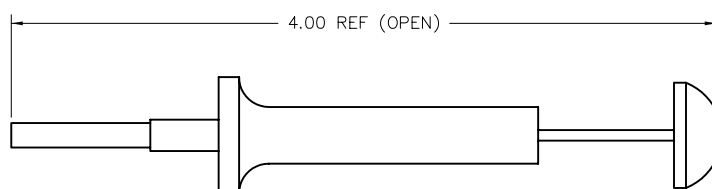
Adapter Sleeve for
Solder Cup Contacts

NOTES:

1. MATERIAL: BeCu PER ASTM-B194.
FINISH: GOLD PLATE PER MIL-G-45204
2. CONTACT ADAPTER SLEEVE IS DESIGNED TO ACCEPT #20 WIRE.
3. WITH USE OF THE ADAPTER SLEEVE, EFFECTIVE DIAMETER IS EXPANDED TO .050 I.D.
4. THE CD1312 WILL ALSO ACCEPT: 3 TWISTED OF #28 WIRE
2 TWISTED OF #26 WIRE

Accessories

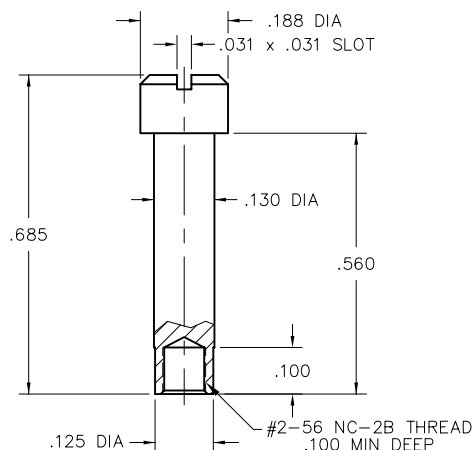
Coax Removal Tool
for WTC Contacts



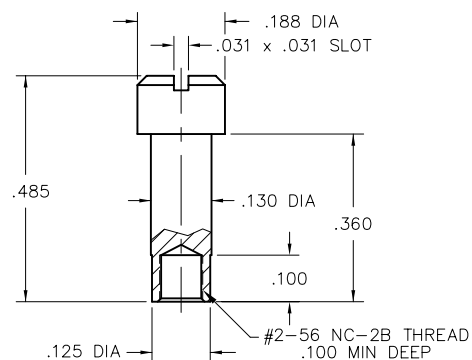
TR2679
REMOVAL TOOL

Accessories

Extension Nuts



WTAHN
FOR USE WITH WTAH & WTAXH
HOODS. SEE PAGE WA-5.



WTDHN
FOR USE WITH WTDH & WTDXH
HOODS. SEE PAGE WA-6.

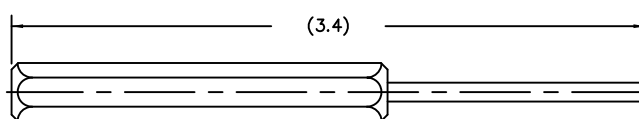
NOTES:

1. EXTENSION NUTS ARE NECESSARY FOR HOODS WHEN CONNECTOR INVOLVED HAS FIXED HARDWARE.
FOR EXAMPLE: GUIDE SET (SY) OR FIXED JACKSCREW SET (J).
2. TWO EXTENSION NUTS ARE REQUIRED PER HOOD.
3. MATERIAL: STAINLESS STEEL, TYPE 303.
4. INSTALLATION: REMOVE NUT FROM HARDWARE ON TERMINATION SIDE OF CONNECTOR USING TN1680, NUT SPANNER WRENCH. INSTALL EXTENSION NUT IN ITS PLACE. FOR INFORMATION ON TN1680 SEE WA-8.

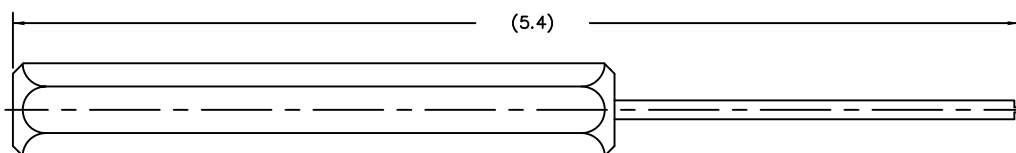
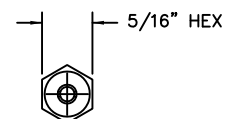


Accessories

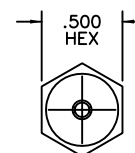
Nut Spanner Wrenchs



TN1680



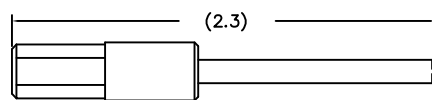
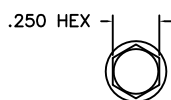
TN4612



USING EITHER OF THE SPANNER WRENCHES SHOWN ABOVE, GUIDE SETS MAY BE REMOVED AND REPOSITIONED IN ANY OF THE 64 POLARIZING POSITIONS. REFER TO PAGE WA-18 FOR POLARIZATION CHART.

CAUTION: WHEN POLARIZED POSITIONS ARE CHANGED, APPLY LOCTITE 242® TO THREADS.

IF SPANNER NUTS ARE DIFFICULT TO REMOVE DUE TO HARDENED LOCTITE®, APPLY HEAT (300° F) TO NUT AREA FOR ONE HOUR AND REPEAT REMOVAL OPERATION.

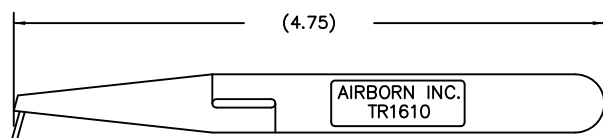


TN21243

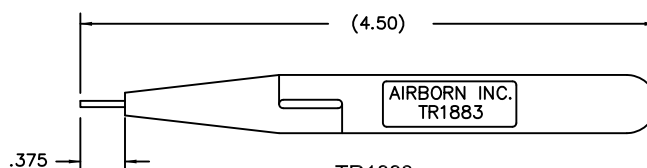
THE 1/4" DRIVE SPANNER WRENCH ABOVE IS DESIGNED FOR USE IN TORQUE WRENCHES

Accessories

Insertion & Removal Tools



TR1610

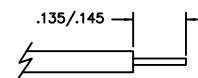
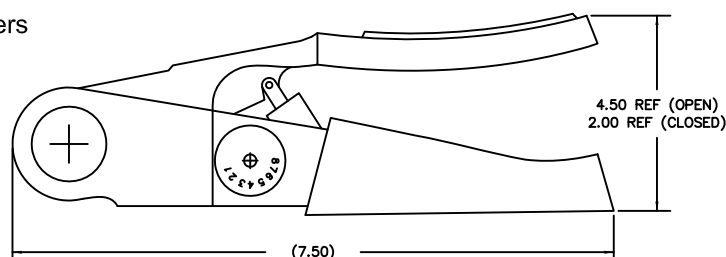


TR1883

Accessories

Crimp Tools & Positioners

TC1652 - CRIMP TOOL
REF M22520/2-01
TP1653 - POSITIONER
REF M22520/2-06



INSULATION STRIPPING
EXPOSE .135/.145 BARE WIRE
LENGTH FOR INSERTION INTO
CONTACT.

TOOL SELECTION TABLE		
CONTACT	TOOL NO.	POSITIONER
WTK2222P	TC1652	TP1985
WTK2222S		TP1653
WTK2220S657		TP2435
WTK2220P657		TP13784

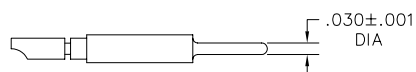
Contacts

#22 Pins & Sockets
for WT, WTA, WTB, WTK,
WG & WGA Series

PINS

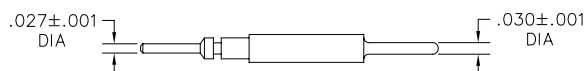
PC

PC Pin, straight, solder cup



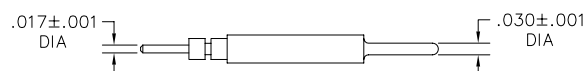
PD

PD9 Pin, straight, dip solder, .140"
PD11 Pin, straight, dip solder, .172"



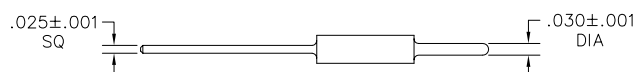
PF

PF3 Pin, straight, flex circuit, .050"
PF6 Pin, straight, flex circuit, .093"



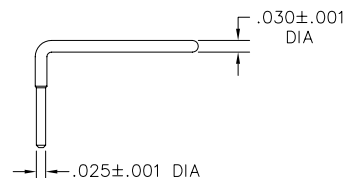
PW

PW40 Pin, straight, wire wrap®, .625"



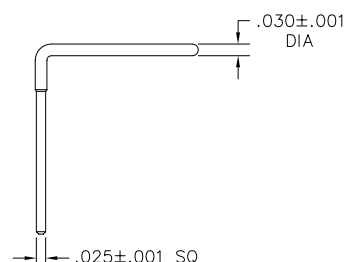
PR

PR5 Pin, right angle, dip solder, .081" x .025" dia
PR7 Pin, right angle, dip solder, .109" x .025" dia
PR9 Pin, right angle, dip solder, .140" x .025" dia
PR11 Pin, right angle, dip solder, .172" x .025" dia
PR15 Pin, right angle, dip solder, .234" x .025" dia
PRD4 Pin, right angle, dip solder, .063" x .030" dia
PRD7 Pin, right angle, dip solder, .109" x .030" dia
PRD8 Pin, right angle, dip solder, .125" x .030" dia



PRW

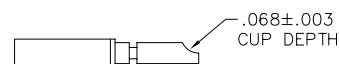
PRW32 Pin, right angle, wire wrap®, .500"
PRW34 Pin, right angle, wire wrap®, .531"
PRW40 Pin, right angle, wire wrap®, .625"



SOCKETS

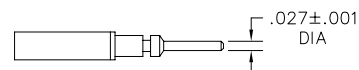
SAC

SAC Socket, straight, solder cup, closed entry



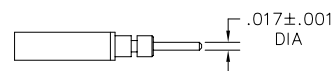
SAD

SAD7 Socket, straight, dip solder, .109"
SAD9 Socket, straight, dip solder, .140"
SAD11 Socket, straight, dip solder, .172"
SAD15 Socket, straight, dip solder, .234"
SAD16 Socket, straight, dip solder, .250"



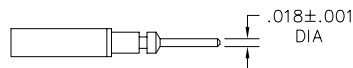
SAF

SAF3 Socket, straight, flex circuit, .050"
SAF6 Socket, straight, flex circuit, .093"



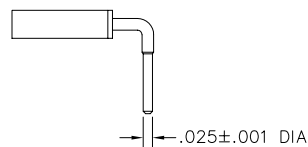
SAG

SAG7 Socket, straight, dip solder, .109"
SAG9 Socket, straight, dip solder, .140"
SAG11 Socket, straight, dip solder, .172"



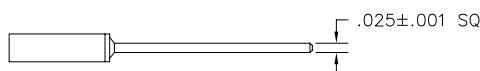
SAR

SAR7 Socket, right angle, dip solder, .109"
SAR9 Socket, right angle, dip solder, .140"
SAR11 Socket, right angle, dip solder, .172"



SAW

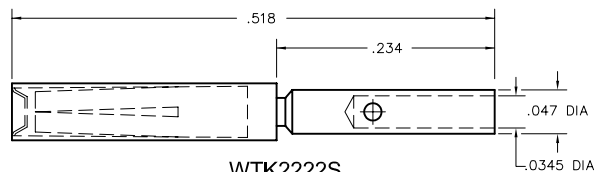
SAW24 Socket, straight, wire wrap®, .375"
SAW40 Socket, straight, wire wrap®, .625"





Contacts

Crimp Removable for
WTDX, WTDXA, WTK, WTKA Series
WGDY, WGDYA, WGK, WGKA Series

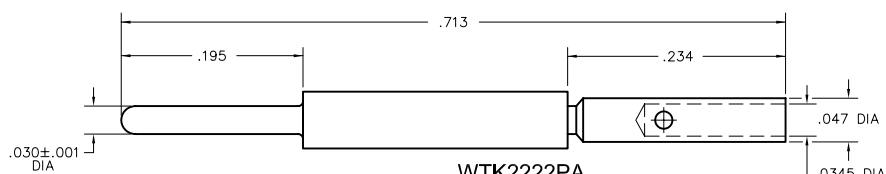


WTK2222S
SOCKET, CRIMP REMOVABLE

WTK2222SA
SOCKET, LOW FORCE, CRIMP REMOVABLE,
22 GAGE BARREL



WTK2220S657
SOCKET, CRIMP REMOVABLE,
20 GAGE BARREL

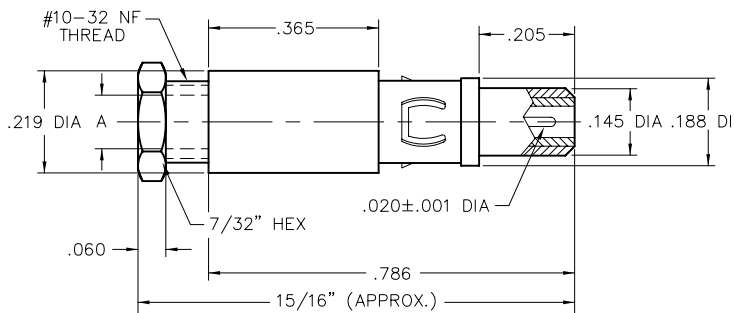


WTK2222PA
PIN, CRIMP REMOVABLE,
22 GAGE BARREL

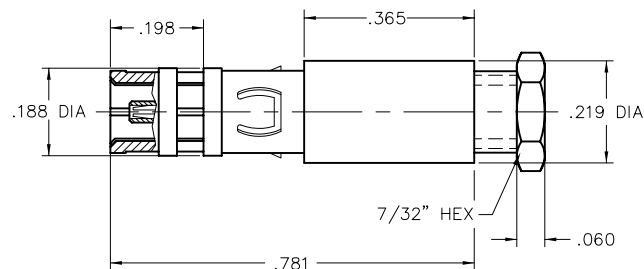
Note: When using crimp contacts with 20 gage barrel, barrel must be cut off prior to removing contact from connector body.

Contacts

Coax

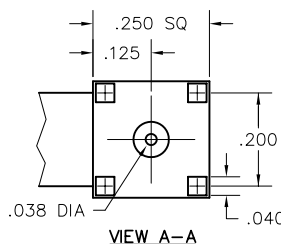


COAX, MALE

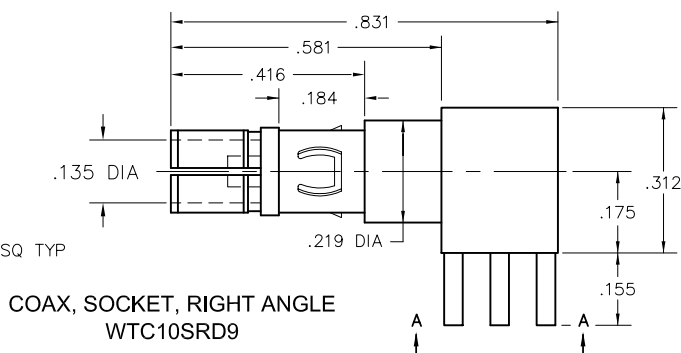


COAX, FEMALE

PART #	DESCRIPTION	DIA "A"	CABLE TYPE	PART #	DESCRIPTION
WTC188P	COAX, STRAIGHT, PIN	.115	RG174, RG188, RG316	WTC188S	COAX, STRAIGHT, SOCKET
WTC196P		.089	RG178, RG196	WTC196S	
WTC085P			SEMI-RIGID, .085-50 OHM	WTC085S	



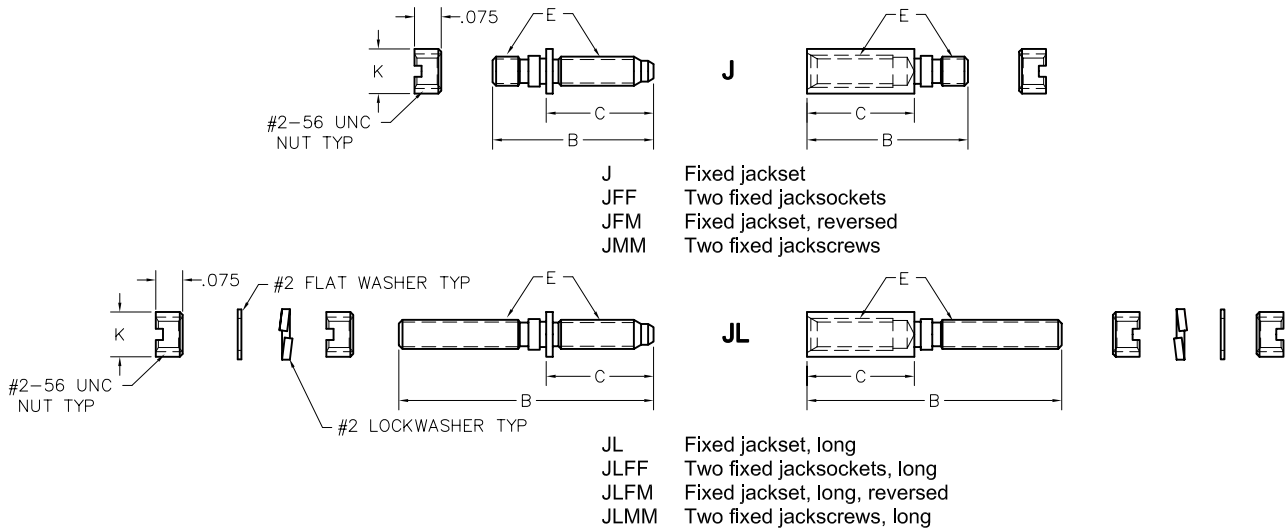
VIEW A-A



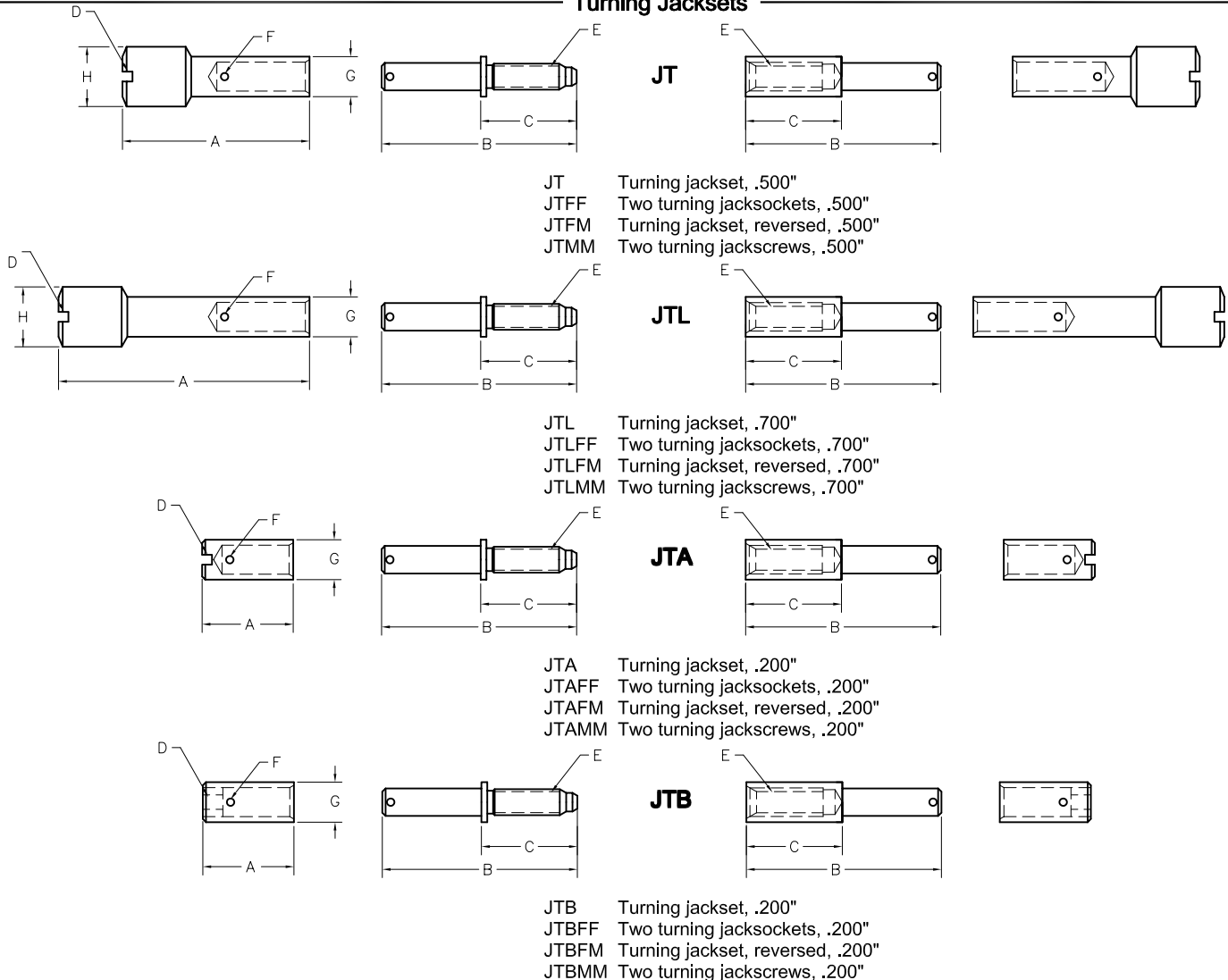
COAX, SOCKET, RIGHT ANGLE
WTC10SRD9

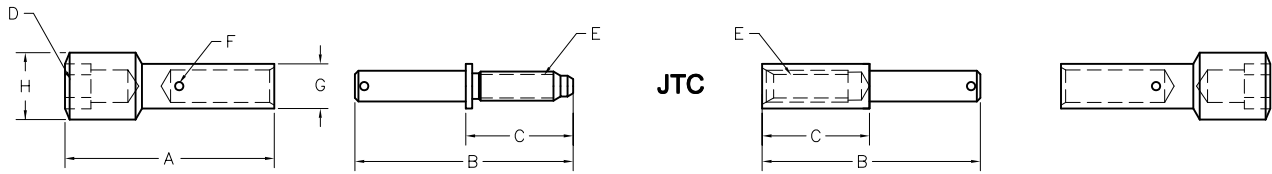
Jacksets

Fixed Jacksets



Turning Jacksets

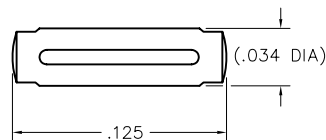




JTC Turning jackset, .500"
 JTCFF Two turning jackscrews, .500"
 JTCFM Turning jackset, reversed, .500"
 JTCMM Two turning jackscrews, .500"

GROOVE PIN

SEE NOTE 1



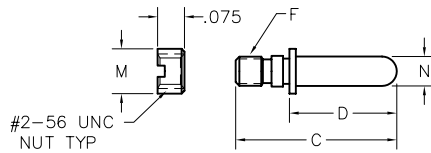
Notes:

1. Groove pin secures knob to jackscrew and jackscrew on turning hardware.
2. For nut spanner wrench, refer to Data Sheet on WA-9.
3. When installing fixed jacksets, apply Loctite® to threads.
4. Under normal conditions, jackscrews are at socket contact position #1, and jackscrews are at pin contact position #1.
5. Spanner nuts, lockwashers and flat washers shall be supplied separately.

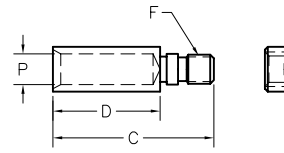
DIMENSIONS										
HARDWARE TYPE	FOR MOLDING TYPE	A	B	C	D	E	F	G	H	K
J	WTA, WTB	—	.450	.300	—	#2-56 UNC THD	—	—	—	.125 DIA
JL	WTA, WTB	—	.712		—		—	—	—	.125 DIA
JT	WTA, WTB WTDX, WTK	.585	.610 .860		.031 x .031 SLOT		.033 DIA	.125 DIA	.187 DIA	—
JTA	WTA, WTB WTDX, WTK	.285	.610 .860		.031 x .031 SLOT				.125 DIA	—
JTB	WTA, WTB WTDX, WTK	.285	.610 .860		5/64 INT HEX				.125 DIA	—
JTC	WTA, WTB WTDX, WTK	.585	.610 .860		7/64 INT HEX				.187 DIA	—
JTL	WTA, WTB WTDX, WTK	.785	.610 .860		.031 x .031 SLOT				.187 DIA	—

Guide Sets

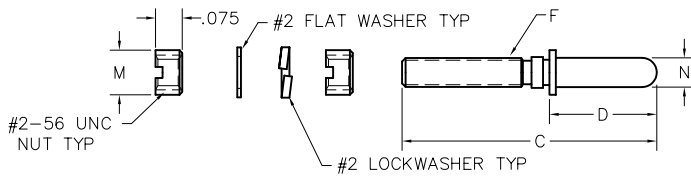
Guide Sets



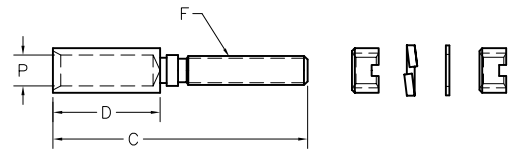
SY



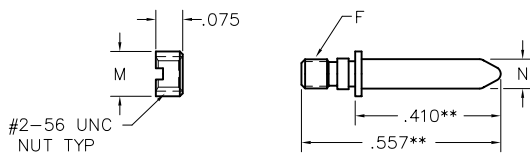
SY Guide set
SYFF Two guide sockets
SYFM Guide set, reversed
SYMM Two guide pins



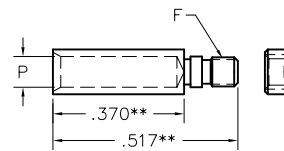
SYL



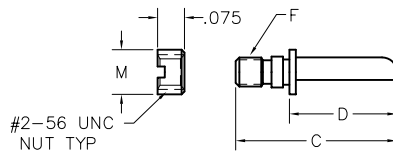
SYL Guide set
SYLFF Two guide sockets
SYLFM Guide set, reversed
SYLMM Two guide pins



SC

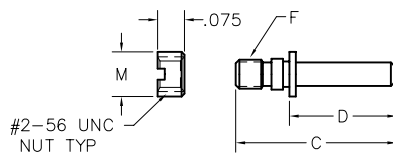
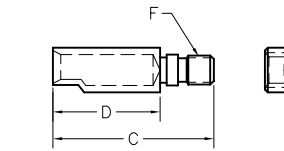


Guide Sets, Polarized



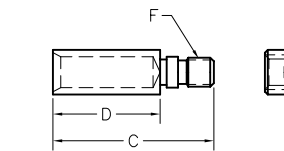
SY-

SEE NOTE 1



SY-

SEE NOTE 2



Notes:

- For polarized "D" shaped guides, see WA-17. Polarizing also available for SYL- and SC- guide sets. To order, use P/N WTBSY-*, WTBSYL-* or WTBSC-*. See WA-17 for dash number requirement (example WTBSY-33).
- For universal type test connector, see WA-17.
- For nut spanner wrench, refer to Data Sheet on WA-9.
- When installing guide sets, apply Loctite® to threads.
- Under normal conditions, jackscrews are at socket contact position #1, and jacksockets are at pin contact position #1.
- Spanner nuts, lockwashers and flat washers shall be supplied separately.

DIMENSIONS							
PART NUMBER	FOR MOLDING TYPE	C	D	F	M	N	P
WTBSC	WTB COAX	**	**	#2-56 UNC THD	.125 DIA	.082 DIA	.086 DIA
WTBSY	WTA,WTB,WG,WGA	.450	.300				
WTBTSY	WTBT	.653					
WTKSY	WTK	.712					
WTRSYL	WTA,WTB,WG						



Hardware Availability by Connector Series

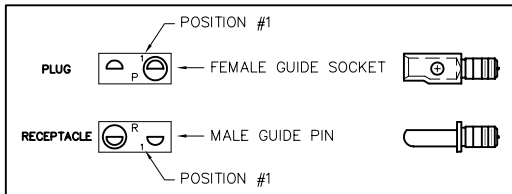
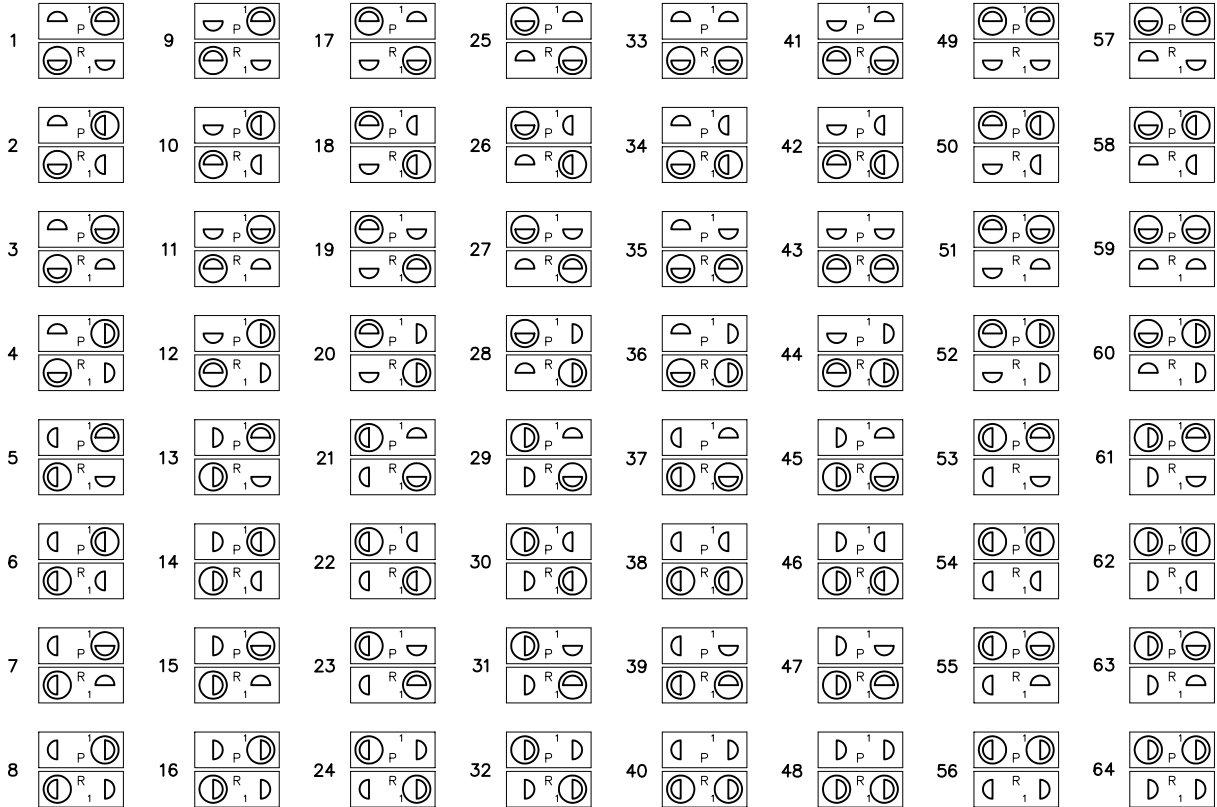
WTA / B WG - Receptacle										Body Height = .335		
Style:	J	JL	SY	SY-*	SYL	SYL-*	JTA	JTB	JTD	JT	JTC	JTL
Mating:	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130
Termn:	----	.247	-----	-----	.247	.247	.200	.200	.230	.500	.500	.700
WTB / WG - Plug										Body Height = .400		
Style:	J	JL	SY	SY-*	SYL	SYL-*	JTA	JTB	JTD	JT	JTC	JTL
Mating:	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130
Termn:	----	.182	-----	-----	.182	.182	.135	.135	.165	.435	.435	.635
WGA - Receptacle										Body Height = .375		
Style:	J	JL	SY	SY-*	SYL	SYL-*	JTA	JTB	JTD	JT	JTC	JTL
Mating:	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130
Termn:	----	.207	-----	-----	.207	.207	.160	.160	.190	.460	.460	.660
WGA - Plug										Body Height = .400		
Style:	J	JL	SY	SY-*	SYL	SYL-*	JTA	JTB	JTD	JT	JTC	JTL
Mating:	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130
Termn:	----	.182	-----	-----	.182	.182	.135	.135	.165	.435	.435	.635
WGR92 - Receptacle										Body Height = .375		
Style:	J	JL	SY	SY-*	SYL	SYL-*	JTA	JTB	JTD	JT	JTC	JTL
Mating:	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130	.130
Termn:	----	.207	-----	-----	.207	.207	.160	.160	.190	.460	.460	.660
WGR92 - Plug										Body Height = .350		
Style:	JCL	SYCL	SYCL-*				JTA	JTB	JT	JTL		
Mating:	.130	.130	.130				.130	.130	.130	.130		
Termn:	.247	.120	.120				.205	.205	.505	.705		
WRD122 - Receptacle										Body Height = .375		
Style:	J	JL	SY	SY-	SYL	SYL-*	L-D65	JTA	JTB	JTC	JT	JTL
Mating:	.130	.130	.130	.130	.130	.130	----	.130	.130	.130	.130	.130
Termn:	----	.207	-----	-----	.207	.207	.230	.160	.160	.460	.460	.660
WRD122 - Plug										Body Height = .635		
Style:	JCL	SYCL	SYCL-*									
Mating:	.130	.130	.010									
Termn:	----	-----	-----									
WRF100 - Receptacle										Body Height = .534		
Style:	J	JL										
Mating:	.130	.130										
Termn:	----	.250										
WRF100 - Plug										Body Height = .430		
Style:								JTB				JTL
Mating:								.130				.130
Termn:								.190				.705
WRTBT - Receptacle										Body Height = .525		
Style:	J		SY	SY-*			JTA	JTB	JTD	JT	JTC	JTL
Mating:	.130		.130	.130			.130	.130	.130	.130	.130	.130
Termn:	----		-----	-----			.175	.175	.205	.475	.500	.675
PA - Receptacle										Body Height = .375		
Style:	SY	J						JTB		JT		
Mating:	.175	.160						.175		.175		
Termn:	.200	.277						.314		1.054		
PA - Plug										Body Height = .375		
Style:	SY	J						JTB		JT		JTL
Mating:	.210	.160						.160		.160		.175
Termn:	.273	.277						.314		1.054		1.170

Hardware Availability by Connector Series

WTK / WTDX - Plug or Receptacle										Body Height = .585		
Style:	J	JL	SY	SY-*			JTA	JTB	JTD	JT	JTC	JTL
Mating:	.130	.130	.130	.130			.130	.130	.130	.130	.130	.130
Termn:	----	.247	----	----			.200	.200	.230	.500	.500	.700
WTA59										Body Height = .285		
Style:	J						JTA	JTB				
Mating:	.130						.130	.130				
Termn:	----						.135	.135				
WRBC - Receptacle										Body Height = .530		
Style:		SC	SC-*									
Mating:		.145	.145									
Termn:		----	----									
WRBC - Plug										Body Height = .515		
Style:		SC	SC-*									
Mating:		.185	.185									
Termn:		----	----									
WTB Coax - Receptacle										Body Height = .335		
Style:	J	JL	SY	SY-*			JTA	JTB		JT		
Mating:	.130	.130	.130	.130			.130	.130		.130		
Termn:	----	.247	----	----			.200	.200		.500		
WTB Coax - Plug										Body Height = .400		
Style:	J	SY	SY-*				JTA	JTB		JT		
Mating:	.130	.130	.130				.130	.130		.130		
Termn:	----	----	----				.135	.135		.435		
WTB Coax - Receptacle with SC hardware (guide socket)										Body Height = .335		
Style:			SC	SC-*								
Mating:			.145	.145								
Termn:			.040	.040								
WTB Coax - Plug with SC hardware (guide pin)										Body Height = .400		
Style:			SC	SC-*								
Mating:			.185	.185								
Termn:			----	----								
WTB Coax - Receptacle with SC hardware (guide pin)										Body Height = .335		
Style:			SC	SC-*								
Mating:			.185	.185								
Termn:			.040	.040								
WTB Coax - Plug with SC hardware (guide socket)										Body Height = .400		
Style:			SC	SC-*								
Mating:			.145	.145								
Termn:			----	----								

Polarization

D-Shaped Guide Sets



For optimum safety, use polarization number 1-6-11-16-17-22-27 or 32 when possible. These positions will exclude entry of guide pins at both ends of connectors when an attempt is made to mate incorrectly.

Select the appropriate two digit number above and include in the hardware code of the part number.

Example:

Plug WTB20PR7SY-1

Receptacle WTB20SECSY-1

To order polarization guide set only, use p/n WTBSY-1. This set consists of one "D-shaped" guide pin, one "D-shaped" guide socket and two spanner nuts (#2-56 UNC thread).

WTBSY-0 is WTBSY-1 except guide set is assembled in connector with the "-1" configuration without applying Loctite.®

To change polarization position of guide sets, order spanner nut wrench, part number TN1680 or TN4612. See WA-9.

SERIES	NO. OF CONTACTS	POLARIZED GUIDE SET CODE	POLAR. GUIDE SET ONLY
WTB WG	10 THRU 160	SY-1 (EX. WTB70SACSY-1)	WTBSY-1
WTB COAX TYPE	20-3, 20-6	SC-1 (EX. WTB20-6SACSC-1)	WTBSC-1
WTK	10 THRU 70	SY-1 (EX. WTKA70SSY-1)	WTKSY-1

UNIVERSAL TEST CONNECTORS

The following test guide sets are designed to mate with any of several connectors having different polarization positions. Note that the square guide pin in test connector will enter the D-shaped socket in any of the four positions in which it may be installed. Likewise, the round guide socket in test connector will fit the D-shaped pin in any position.

-65		For positions -1 thru -16
-66		For positions -17 thru -32
-67P		For positions -33 thru -48
-67R		For positions -49 thru -64
-68P		For positions -65 thru -80
-68R		For positions -81 thru -96

When ordering -67 or -68 guide sets only, P (plug) or R (receptacle) must be noted. Ex: WTBSY-67R. Not required if guides are assembled in the connector. Ex: WTB70SACSY-67.

WTBSY-65, WTBSC-65 & WTKSY-65 is Universal Guide Set only, consisting of: one square guide pin
one round guide socket
two spanner nuts (#2-56 thd)

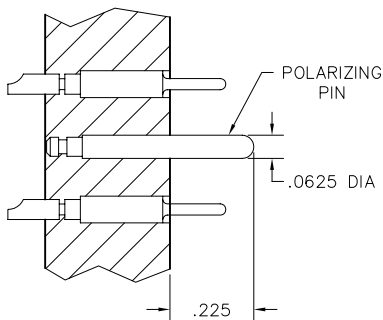
Polarization

Polarizing Pin Applications

PIN CONTACT

—STRAIGHT THRU—
CONNECTOR BODY

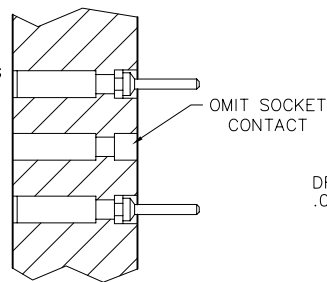
WT, WTA
WTAV, WTBV



WTA**PCJTA443-1, -2...

SOCKET CONTACT

WT, WTA, WTAX,
WTB, WTBX

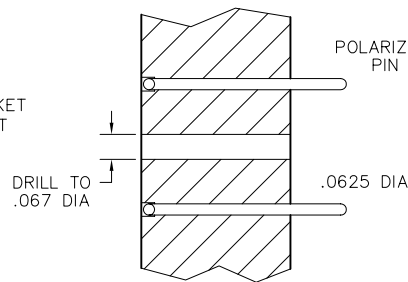


WTA**SAD9JL444-1, -2...

PIN CONTACT

—RIGHT ANGLE—
CONNECTOR BODY

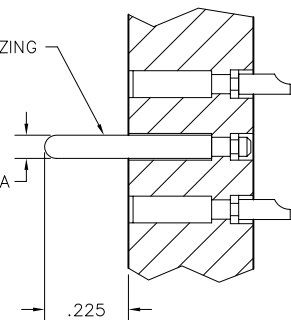
WG, WGA, WGE,
WT, WTB



WTB**PR7SY515-1, -2...

SOCKET CONTACT

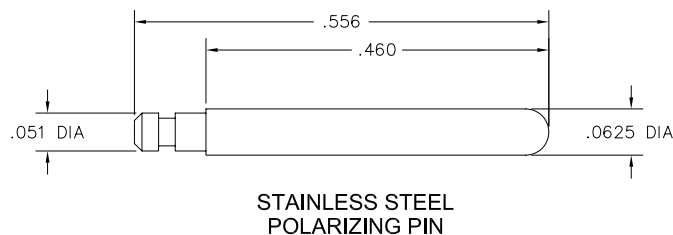
WG, WGA, WGE,
WT, WTA, WTAX,
WTB, WTDXA, WTKA



WTB**SACSY515-1, -2...

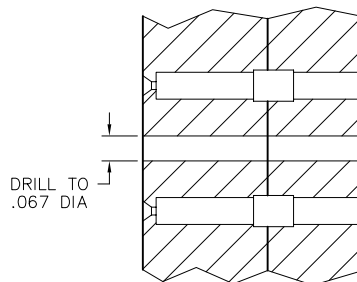
Notes:

1. CODE 443 - Polarizing pin installed in contact position noted by dash number.
2. CODE 444 - Contact position noted by dash number is left open.
3. Either pin or socket contacts can be used with 443 or 444.
4. ** = connector size
5. For additional dimensions and other information, refer to catalog data sheet of specific connector.



SOCKET CONTACT

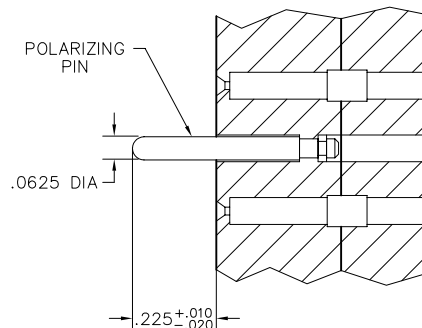
WTDXA, WTKA



WTDXA**SJT478-1, -2...
WTKA**SSY478-1, -2...

SOCKET CONTACT

WTDXA, WTKA



WTDXA**SJT515-1, -2...
WTKA**SSY515-1, -2...



MIL-C-55302/55 thru MIL-C-55302/57 Cross Reference Chart

## Indicates Number of Contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70		## Indicates Number of Contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70	
MIL-C-55302/55 - Standard Insertion Force Contacts - or - MIL-C-55302/55L - Low Insertion Force Contacts		MIL-C-55302/57	
MIL Number	W Series	MIL Number	W Series
/55-A##L /55-A##M /55-A##S /55-A##H	WTA##SACJTL WTA##SACJT WTA##SACJTA WTA##SACJTB	/57A##X /57A##Y /57A##Y-2 thru -64 /57A##Y-0 /57A##S /57A##H	WTB##PR7SY WTB##PR7SY-1 WTB##PR7SY-2 thru -64 WTB##PR7SY-0 WTB##PR7JTA WTB##PR7JTB
/55-B##L /55-B##M /55-B##S /55-B##H	WTA##SAD9JTL WTA##SAD9JT WTA##SAD9JTA WTA##SAD9JTB	/57B##X /57B##Y /57B##Y-2 thru -64 /57B##Y-0 /57B##S /57B##H	WTB##PR9SY WTB##PR9SY-1 WTB##PR9SY-2 thru -64 WTB##PR9SY-0 WTB##PR9JTA WTB##PR9JTB
/55-C##L /55-C##M /55-C##S /55-C##H	WTA##SAD11JTL WTA##SAD11JT WTA##SAD11JTA WTA##SAD11JTB	/57C##X /57C##Y /57C##Y-2 thru -64 /57C##Y-0 /57C##S /57C##H	WTB##PR11SY WTB##PR11SY-1 WTB##PR11SY-2 thru -64 WTB##PR11SY-0 WTB##PR11JTA WTB##PR11JTB
/55-D##L /55-D##M /55-D##S /55-D##H	WTA##SAF3JTL WTA##SAF3JT WTA##SAF3JTA WTA##SAF3JTB	/57-01	TN1680 Spanner Nut Wrench
/55-E##L /55-E##M /55-E##S /55-E##H	WTA##SAD15JTL WTA##SAD15JT WTA##SAD15JTA WTA##SAD15JTB		
/55-F##L /55-F##M /55-F##S /55-F##H	WTA##SAF6JTL WTA##SAF6JT WTA##SAF6JTA WTA##SAF6JTB		
MIL-C-55302/56			
/56A## /56B## /56C## /56D## /56E## /56F##	WTA##PCJL WTA##PD9JL WTA##PD11JL WTA##PW40JL WTA##PF3JL WTA##PF6JL		

## Indicates Number of Contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70		## Indicates Number of Contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70	
MIL-C-55302/58 - Standard Insertion Force Contacts - or - MIL-C-55302/58L - Low Insertion Force Contacts		MIL-C-55302/58	
MIL Number	W Series	MIL Number	W Series
/58-A##X /58-A##Y /58-A##Y-2 thru -64 /58-A##Y-0 /58-A##F /58-A##S /58-A##H	WTB##SACSY WTB##SACSY-1 WTB##SACSY-2 thru -64 WTB##SACSY-0 WTB##SACJ WTB##SACJTA WTB##SACJTB	/58-H##X /58-H##Y /58-H##Y-2 thru -64 /58-H##Y-0 /58-H##F /58-H##S /58-H##H	WTB##SAF6SY WTB##SAF6SY-1 WTB##SAF6SY-2 thru -64 WTB##SAF6SY-0 WTB##SAF6J WTB##SAF6JTA WTB##SAF6JTB
		/59 ### Indicates Number of Contacts: 90, 100 or 120	
/58-B##X /58-B##Y /58-B##Y-2 thru -64 /58-B##Y-0 /58-B##F /58-B##S /58-B##H	WTB##SAD9SY WTB##SAD9SY-1 WTB##SAD9SY-2 thru -64 WTB##SAD9SY-0 WTB##SAD9J WTB##SAD9JTA WTB##SAD9JTB	/59A###X /59A###Y /59A###Y-2 thru -64 /59A###Y-0 /59A###F /59A###S /59A###H	WTB###PR7SY WTB###PR7SY-1 WTB###PR7SY-2 thru -64 WTB###PR7SY-0 WTB###PR7J WTB###PR7JTA WTB###PR7JTB
/58-C##X /58-C##Y /58-C##Y-2 thru -64 /58-C##Y-0 /58-C##F /58-C##S /58-C##H	WTB##SAD11SY WTB##SAD11SY-1 WTB##SAD11SY-2 thru -64 WTB##SAD11SY-0 WTB##SAD11J WTB##SAD11JTA WTB##SAD11JTB	/59B###X /59B###Y /59B###Y-2 thru -64 /59B###Y-0 /59B###F /59B###S /59B###H	WTB###PR9SY WTB###PR9SY-1 WTB###PR9SY-2 thru -64 WTB###PR9SY-0 WTB###PR9J WTB###PR9JTA WTB###PR9JTB
/58-D##X /58-D##Y /58-D##Y-2 thru -64 /58-D##Y-0 /58-D##F /58-D##S /58-D##H	WTB##SAW40SY WTB##SAW40SY-1 WTB##SAW40SY-2 thru -64 WTB##SAW40SY-0 WTB##SAW40J WTB##SAW40JTA WTB##SAW40JTB	/59C###X /59C###Y /59C###Y-2 thru -64 /59C###Y-0 /59C###F /59C###S /59C###H	WTB###PR11SY WTB###PR11SY-1 WTB###PR11SY-2 thru -64 WTB###PR11SY-0 WTB###PR11J WTB###PR11JTA WTB###PR11JTB
/58-E##X /58-E##Y /58-E##Y-2 thru -64 /58-E##Y-0 /58-E##F /58-E##S /58-E##H	WTB##SAF3SY WTB##SAF3SY-1 WTB##SAF3SY-2 thru -64 WTB##SAF3SY-0 WTB##SAF3J WTB##SAF3JTA WTB##SAF3JTB		
/58-F##X /58-F##Y /58-F##Y-2 thru -64 /58-F##Y-0 /58-F##F /58-F##S /58-F##H	WTB##SAD15SY WTB##SAD15SY-1 WTB##SAD15SY-2 thru -64 WTB##SAD15SY-0 WTB##SAD15J WTB##SAD15JTA WTB##SAD15JTB		

## Indicates Number of Contacts: 90, 100 or 120		## Indicates Number of Contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70	
MIL-C-55302/60 - Standard Insertion Force Contacts - or - MIL-C-55302/60L - Low Insertion Force Contacts		MIL-C-55302/62	
MIL Number	W Series	MIL Number	W Series
/60-A###X	WTB###SACSY	/62-A##L	WTAX##SACJTL
/60-A###Y	WTB###SACSY-1	/62-A##M	WTAX##SACJT
/60-A###Y-2 thru -64	WTB###SACSY-2 thru -64	/62-A##S	WTAX##SACJTA
/60-A###Y-0	WTB###SACSY-0	/62-A##H	WTAX##SACJTB
/60-A###F	WTB###SACJ		
/60-A###S	WTB###SACJTA		
/60-A###H	WTB###SACJTB		
		/62-B##L	WTAX##SAD9JTL
/60-B###X	WTB###SAD9SY	/62-B##M	WTAX##SAD9JT
/60-B###Y	WTB###SAD9SY-1	/62-B##S	WTAX##SAD9JTA
/60-B###Y-2 thru -64	WTB###SAD9SY-2 thru -64	/62-B##H	WTAX##SAD9JTB
/60-B###Y-0	WTB###SAD9SY-0		
/60-B###F	WTB###SAD9J	/62-C##L	WTAX##SAD11JTL
/60-B###S	WTB###SAD9JTA	/62-C##M	WTAX##SAD11JT
/60-B###H	WTB###SAD9JTB	/62-C##S	WTAX##SAD11JTA
		/62-C##H	WTAX##SAD11JTB
/60-C###X	WTB###SAD11SY		
/60-C###Y	WTB###SAD11SY-1	/62-D##L	WTAX##SAF3JTL
/60-C###Y-2 thru -64	WTB###SAD11SY-2 thru -64	/62-D##M	WTAX##SAF3JT
/60-C###Y-0	WTB###SAD11SY-0	/62-D##S	WTAX##SAF3JTA
/60-C###F	WTB###SAD11J	/62-D##H	WTAX##SAF3JTB
/60-C###S	WTB###SAD11JTA		
/60-C###H	WTB###SAD11JTB	/62-E##L	WTAX##SAD15JTL
		/62-E##M	WTAX##SAD15JT
/60-D###X	WTB###SAW40SY	/62-E##S	WTAX##SAD15JTA
/60-D###Y	WTB###SAW40SY-1	/62-E##H	WTAX##SAD15JTB
/60-D###Y-2 thru -64	WTB###SAW40SY-2 thru -64		
/60-D###Y-0	WTB###SAW40SY-0	/62-F##L	WTAX##SAF6JTL
/60-D###F	WTB###SAW40J	/62-F##M	WTAX##SAF6JT
/60-D###S	WTB###SAW40JTA	/62-F##S	WTAX##SAF6JTA
/60-D###H	WTB###SAW40JTB	/62-F##H	WTAX##SAF6JTB
/60-E###X	WTB###SAD15SY	MIL-C-55302/63	
/60-E###Y	WTB###SAD15SY-1	/63A##L	WTA##PCJTL
/60-E###Y-2 thru -64	WTB###SAD15SY-2 thru -64	/63A##M	WTA##PCJT
/60-E###Y-0	WTB###SAD15SY-0	/63A##S	WTA##PCJTA
/60-E###F	WTB###SAD15J	/63A##H	WTA##PCJTB
/60-E###S	WTB###SAD15JTA		
/60-E###H	WTB###SAD15JTB	/63A##F	WTAV##PCJL
		/63A##X	WTAV##PCSYL
## Indicates Number of Contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70		/63A##Y	WTAV##PCSYL-1
MIL-C-55302/61		/63A##Y-2 thru -64	WTAV##PCSYL-2 thru -64
/61A##	WTB##PR7J	/63A##Y-0	WTAV##PCSYL-0
/61B##	WTB##PR9J		
/61C##	WTB##PR11J		

## Indicates Number of Contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70		## Indicates Number of Contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70	
MIL-C-55302/63		MIL-C-55302/64 - Standard Insertion Force Contacts - or - MIL-C-55302/64L - Low Insertion Force Contacts	
MIL Number	W Series	MIL Number	W Series
/63B##L /63B##M /63B##S /63B##H /63B##F	WTA##PD9JTL WTA##PD9JT WTA##PD9JTA WTA##PD9JTB WTAV##PD9JL	/64-A##F /64-A##X /64-A##Y /64-A##Y-2 thru -64 /64-A##Y-0	WTA##SACJL WTAX##SACSYL WTAX##SACSYL-1 WTAX##SACSYL-2 thru -64 WTAX##SACSYL-0
/63B##X /63B##Y /63B##Y-2 thru -64 /63B##Y-0	WTAV##PD9SYL WTAV##PD9SYL-1 WTAV##PD9SYL-2 thru -64 WTAV##PD9SYL-0	/64-B##F /64-B##X /64-B##Y /64-B##Y-2 thru -64 /64-B##Y-0	WTA##SAD9JL WTAX##SAD9SYL WTAX##SAD9SYL-1 WTAX##SAD9SYL-2 thru -64 WTAX##SAD9SYL-0
/63C##L /63C##M /63C##S /63C##H /63C##F	WTA##PD11JTL WTA##PD11JT WTA##PD11JTA WTA##PD11JTB WTAV##PD11JL	/64-C##F /64-C##X /64-C##Y /64-C##Y-2 thru -64 /64-C##Y-0	WTA##SAD11JL WTAX##SAD11SYL WTAX##SAD11SYL-1 WTAX##SAD11SYL-2 thru -64 WTAX##SAD11SYL-0
/63C##X /63C##Y /63C##Y-2 thru -64 /63C##Y-0	WTAV##PD11SYL WTAV##PD11SYL-1 WTAV##PD11SYL-2 thru -64 WTAV##PD11SYL-0	/64-D##F /64-D##X /64-D##Y /64-D##Y-2 thru -64 /64-D##Y-0	WTA##SAW40JL WTAX##SAW40SYL WTAX##SAW40SYL-1 WTAX##SAW40SYL-2 thru -64 WTAX##SAW40SYL-0
/63D##L /63D##M /63D##S /63D##H /63D##F	WTA##PF3JTL WTA##PF3JT WTA##PF3JTA WTA##PF3JTB WTAV##PF3JL	/64-E##F /64-E##X /64-E##Y /64-E##Y-2 thru -64 /64-E##Y-0	WTA##SAF3JL WTAX##SAF3SYL WTAX##SAF3SYL-1 WTAX##SAF3SYL-2 thru -64 WTAX##SAF3SYL-0
/63D##X /63D##Y /63D##Y-2 thru -64 /63D##Y-0	WTAV##PF3SYL WTAV##PF3SYL-1 WTAV##PF3SYL-2 thru -64 WTAV##PF3SYL-0	/64-F##F /64-F##X /64-F##Y /64-F##Y-2 thru -64 /64-F##Y-0	WTA##SAF6JL WTAX##SAF6SYL WTAX##SAF6SYL-1 WTAX##SAF6SYL-2 thru -64 WTAX##SAF6SYL-0
/63E##L /63E##M /63E##S /63E##H /63E##F	WTA##PF6JTL WTA##PF6JT WTA##PF6JTA WTA##PF6JTB WTAV##PF6JL		
/63E##X /63E##Y /63E##Y-2 thru -64 /63E##Y-0	WTAV##PF6SYL WTAV##PF6SYL-1 WTAV##PF6SYL-2 thru -64 WTAV##PF6SYL-0		

## Indicates Number of Contacts: 10, 14, 20, 24, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66 or 70		Number of Contacts: 160	
MIL-C-55302/65 and /66 - Standard Insertion Force Contacts - or - MIL-C-55302/65L and /66L - Low Insertion Force Contacts		MIL-C-55302/139	
MIL Number	W Series	MIL Number	W Series
/65-##X	WTKA##SASY	/139B160X	WG160SAD7SY
/65-##Y	WTKA##SASY-1	/139B160Y	WG160SAD7SY-1
/65-##Y-2 thru -64	WTKA##SASY-2 thru -64	/139B160Y-2 thru -64	WG160SAD7SY-2 thru -64
/65-##Y-0	WTKA##SASY-0	/139B160Y-0	WG160SAD7SY-0
/65-##F	WTKA##SAJ	/139B160F	WG160SAD7J
/65-##S	WTKA##SAJTA	/139B160S	WG160SAD7JTA
/65-##H	WTKA##SAJTB	/139B160H	WG160SAD7JTB
/65-01 Crimp Contact	WTK2222S	/139C160X	WG160SAD9SY
/65-02 Crimp Contact	WTK2222SA Low Force Socket	/139C160Y	WG160SAD9SY-1
/66-##L	WTDXA##SAJTL	/139C160Y-2 thru -64	WG160SAD9SY-2 thru -64
/66-##M	WTDXA##SAJT	/139C160Y-0	WG160SAD9SY-0
/66-##S	WTDXA##SAJTA	/139C160F	WG160SAD9J
/66-##F	WTDXA##SAJ	/139C160S	WG160SAD9JTA
/66-##H	WTDXA##SAJTB	/139C160H	WG160SAD9JTB
MIL-C-55302/138		Number of Contacts: 160	
/138A160X	WG160PR7SY	/139D160X	WG160SAW40SY
/138A160Y	WG160PR7SY-1	/139D160Y	WG160SAW40SY-1
/138A160Y-2 thru -64	WG160PR7SY-2 thru -64	/139D160Y-2 thru -64	WG160SAW40SY-2 thru -64
/138A160Y-0	WG160PR7SY-0	/139D160Y-0	WG160SAW40SY-0
/138A160F	WG160PR7J	/139D160F	WG160SAW40J
/138A160S	WG160PR7JTA	/139D160S	WG160SAW40JTA
/138A160H	WG160PR7JTB	/139D160H	WG160SAW40JTB
/138B160X	WG160PR9SY	/139E160X	WG160SAD11SY
/138B160Y	WG160PR9SY-1	/139E160Y	WG160SAD11SY-1
/138B160Y-2 thru -64	WG160PR9SY-2 thru -64	/139E160Y-2 thru -64	WG160SAD11SY-2 thru -64
/138B160Y-0	WG160PR9SY-0	/139E160Y-0	WG160SAD11SY-0
/138B160F	WG160PR9J	/139E160F	WG160SAD11J
/138B160S	WG160PR9JTA	/139E160S	WG160SAD11JTA
/138B160H	WG160PR9JTB	/139E160H	WG160SAD11JTB
/138C160X	WG160PR11SY	/139F160X	WG160SAF3SY
/138C160Y	WG160PR11SY-1	/139F160Y	WG160SAF3SY-1
/138C160Y-2 thru -64	WG160PR11SY-2 thru -64	/139F160Y-2 thru -64	WG160SAF3SY-2 thru -64
/138C160Y-0	WG160PR11SY-0	/139F160Y-0	WG160SAF3SY-0
/138C160F	WG160PR11J	/139F160F	WG160SAF3J
/138C160S	WG160PR11JTA	/139F160S	WG160SAF3JTA
/138C160H	WG160PR11JTB	/139F160H	WG160SAF3JTB
MIL-C-55302/139		Number of Contacts: 160	
/139A160X	WG160SACSY	/139H160X	WG160SAF6SY
/139A160Y	WG160SACSY-1	/139H160Y	WG160SAF6SY-1
/139A160Y-2 thru -64	WG160SACSY-2 thru -64	/139H160Y-2 thru -64	WG160SAF6SY-2 thru -64
/139A160Y-0	WG160SACSY-0	/139H160Y-0	WG160SAF6SY-0
/139A160F	WG160SACJ	/139H160F	WG160SAF6J
/139A160S	WG160SACJTA	/139H160S	WG160SAF6JTA
/139A160H	WG160SACJTB	/139H160H	WG160SAF6JTB

"WB" SERIES - .050"
MIL-C-55302



Contents

"WB" Series

.050" Rectangular Plastic Board Level Connectors

WB-1	Contents
WB-2	Specifications
WB-3	Performance
WB-4	Part number description
	2-Row Connectors - PC Card or SMT to Board, Sizes: 20-132
WB-5	WB Plug, right angle, with mounting ears
	WB Receptacle, straight, with mounting ears
WB-7	WBB, WBA Plug, straight, surface mount, with mounting ears
	WB Receptacle, straight, with mounting ears
WB-9	Hardware
WB-10	WB Board layout - plug, right angle
WB-11	WB Board layout - receptacle, straight
WB-12	WBB, WBA Board layout - plug, straight, surface mount
	Military Cross Reference
WB-13	Chart

Specifications

Materials and Finishes *

Pin Contacts:	Phosphor Bronze per ASTM B 139
Socket Contacts:	BeCu per MIL-C-55302
Contact Finish:	Au per ASTM B 488-, SAE AMS 2422. Localized finish over MIL-C-55302
Molded Insulators:	Glass filled polyphenylene sulfide per MIL-M-24519, Type GST-40F
Keying Features:	Polarized octagonal guides can be a molded integral part of the insulator or separate stainless steel hardware.
Tolerances:	Unless otherwise specified: Fractions = $\pm 1/64$ " Decimals = $\pm .010$ " Angles = $\pm 5^\circ$

Note: AirBorn can manufacture special configurations for your exact specifications.

* = Reference the above listed specifications or an equivalent industry standard when applicable



Performance

Reference MIL-C-55302

Contact Rating:	1.5 amperes
Solderability:	Tested to MIL-STD-202, Method 208
Operating Temperature:	-65° to +125° C or -85° to +257° F
Contact Engagement Force:	2.0 oz. maximum with .0189/.0190 diameter test pin in accordance with SAE AS 31971
Contact Separation Force:	.10 oz. maximum with .0169/.0170 diameter test pin in accordance with SAE AS 31971

<u>Category:</u>	<u>Requirements:</u>	<u>Test Method Per:</u> <u>SAE AS 13441</u>
Test Voltage:	600 V, RMS, 60 Hz @ sea level 150 V, RMS, 60 Hz @ 70,000 feet	#3001
Insulation Resistance:	5,000 megohms minimum @ 500 VDC	#3003
Durability:	500 connector mating cycles	
Contact Resistance:	.0375 volt maximum drop @ 1.5 amperes - (.025 ohms)	#3004
Contact Resistance:	.0375 volt maximum drop @ 1.5 amperes -	

Part Number Description

Each part number consists of four elements: series, size (number of contacts), type of contacts, and type of hardware.

Each catalog page shows the choices available for each of these elements. By selecting one option from each category on the page, you can build a set of connectors to meet your requirements.

Each part number is identified by a combination of letters and/or numbers of varying lengths. These numbers are written together without spaces or punctuation.

Series:

The series letters identify the connector body style. Follow choices on each catalog page for series numbers.

Size:

The size is determined by the number of contacts in the connector, and is an integral part of the part number. Order only sizes shown on the catalog page unless otherwise noted.

Contacts:

Each page also identifies all contact options for a given connector.

Hardware:

Hardware options are shown on each catalog page. Follow the choices for each connector.

Note:

Each page is as comprehensive as possible. However, if you do not find a particular connector size or option, please contact the factory for further assistance.



2 • ROW PC Card to Chassis or Board

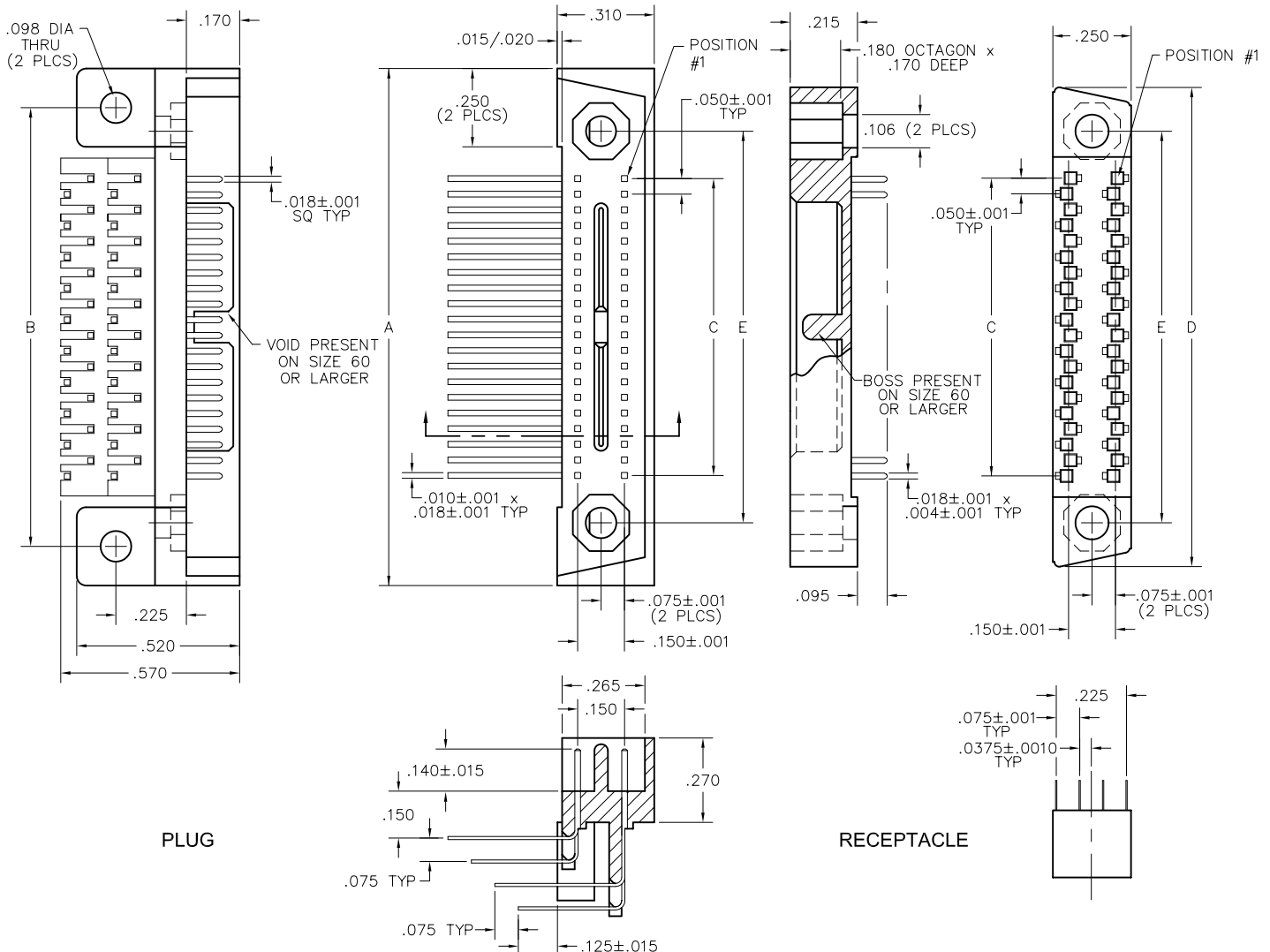
.050"

WB - WB

20 thru 132 Contacts

WB40PR8

WB40SD6





PLUG		RECEPTACLE		PLUG: WB40PR8
				RECEPTACLE: WB40SD6
				XXXXXXXXXX
SERIES				
WB 2 row, right angle, plug, with mounting ears		WB 2 row, straight, receptacle, with mounting ears		
SIZE				
20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 128, 132		20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 128, 132		
CONTACTS				
TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:		
PR8	Pin, right angle, dip solder, .125"	SD6	Socket, straight, dip solder, .095"	
		SD9	Socket, straight, dip solder, .140"	
		SD12	Socket, straight, dip solder, .190"	
		SD19	Socket, straight, dip solder, .300"	
HARDWARE				
STYLE OF HARDWARE: (See WB-9)		STYLE OF HARDWARE: (See WB-9)		
K*_*	Integral keying guides, polarized	K*_*	Integral keying guides, polarized	
KY*_*	Stainless steel keying guides, polarized	KY*_*	Stainless steel keying guides, polarized	
JMM	2 stainless steel fixed jackscrews	JTFF	2 stainless steel turning jackscrews	

DIMENSIONS					
SIZE	A	B	C	D	E
20	1.150	.900	.450	1.030	.750
30	1.400	1.150	.700	1.280	1.000
40	1.650	1.400	.950	1.530	1.250
50	1.900	1.650	1.200	1.780	1.500
60	2.150	1.900	1.450	2.030	1.750
70	2.400	2.150	1.700	2.280	2.000
80	2.650	2.400	1.950	2.530	2.250
90	2.900	2.650	2.200	2.780	2.500
100	3.150	2.900	2.450	3.030	2.750
110	3.400	3.150	2.700	3.280	3.000
128	3.850	3.600	3.150	3.730	3.450
132	3.950	3.700	3.250	3.830	3.550



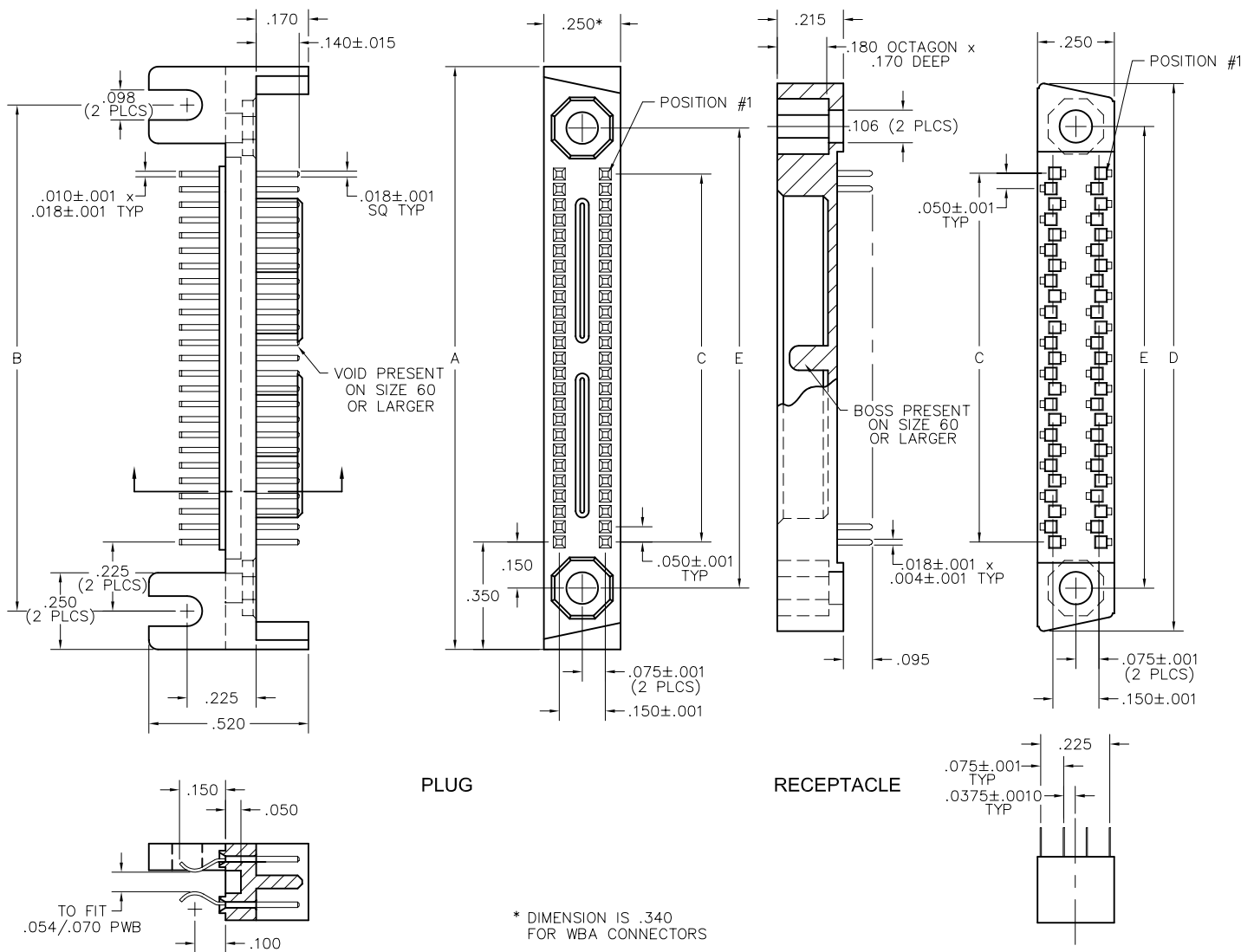
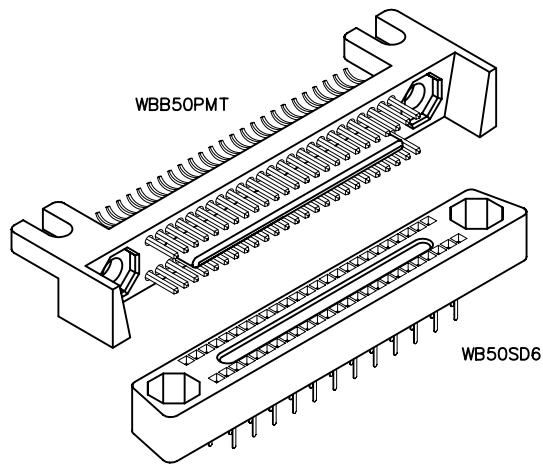
2 • ROW SMT Card to Chassis or Board

.050"

WBB - WB

WBA - WB

20 thru 132 Contacts





PLUG: WBB50PMT
RECEPTACLE: WB50SD6
XXXXXXXXXXXX

PLUG

RECEPTACLE

SERIES

WBB 2 row, SMT, plug, with mounting ears	WB 2 row, straight, receptacle, with mounting ears
WBA 2 row, SMT, plug, full skirt, with mounting ears	

SIZE

20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 128, 132	20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 128, 132
--	--

CONTACTS

TYPE CONTACTS/TERMINATIONS:		TYPE CONTACTS/TERMINATIONS:	
PMT	Pin, card edge SMT (Board: .054/.070)	SD6	Socket, straight, dip solder, .095"
		SD9	Socket, straight, dip solder, .140"
		SD12	Socket, straight, dip solder, .190"
		SD19	Socket, straight, dip solder, .300"

HARDWARE

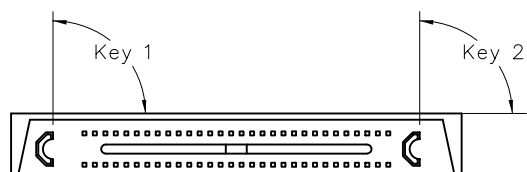
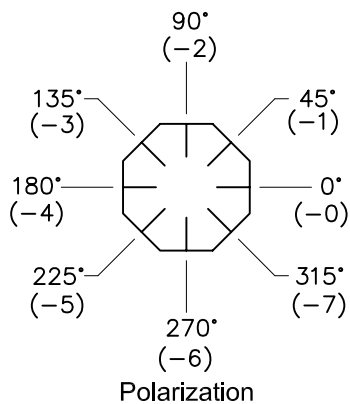
STYLE OF HARDWARE: (See WB-9)		STYLE OF HARDWARE: (See WB-9)	
K*_*	Integral keying guides, polarized	K*_*	Integral keying guides, polarized
KY*_*	Stainless steel keying guides, polarized	KY*_*	Stainless steel keying guides, polarized
JMM	2 stainless steel fixed jackscrews	JTFF	2 stainless steel turning jackscrews

DIMENSIONS					
SIZE	A	B	C	D	E
20	1.150	.900	.450	1.030	.750
30	1.400	1.150	.700	1.280	1.000
40	1.650	1.400	.950	1.530	1.250
50	1.900	1.650	1.200	1.780	1.500
60	2.150	1.900	1.450	2.030	1.750
70	2.400	2.150	1.700	2.280	2.000
80	2.650	2.400	1.950	2.530	2.250
90	2.900	2.650	2.200	2.780	2.500
100	3.150	2.900	2.450	3.030	2.750
110	3.400	3.150	2.700	3.280	3.000
128	3.850	3.600	3.150	3.730	3.450
132	3.950	3.700	3.250	3.830	3.550

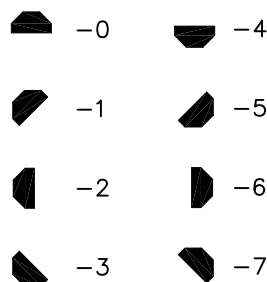
Hardware

Polarization

Integral Keying Guides



Example: WB**PR8K2-2
(Plug)



Polarization Chart



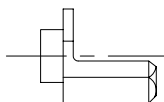
Example: WB**SD6K2-2
(Receptacle)

Notes:

1. Each "dash" number represents 45° clocking from horizontal (0°).
2. The first number designates "Key 1", the second number designates "Key 2".

Hardware Options:

Hardware Style: KY* - *



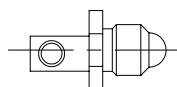
Stainless Steel Polarized Guide

Plug	Mates with	Receptacle	Plug	Mates with	Receptacle
 -0		 -0	 -4		 -4
 -1		 -7	 -5		 -3
 -2		 -6	 -6		 -2
 -3		 -5	 -7		 -1

Hardware Style: JMM (Plug only)



Groove Pin

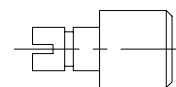


Fixed Jackscrew
(#4-40 UNC-2A)

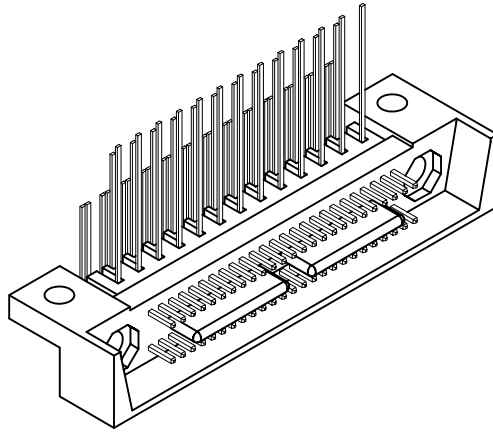
Hardware Style: JTFF (Receptacle only)



E-Ring



Turning Jacksocket



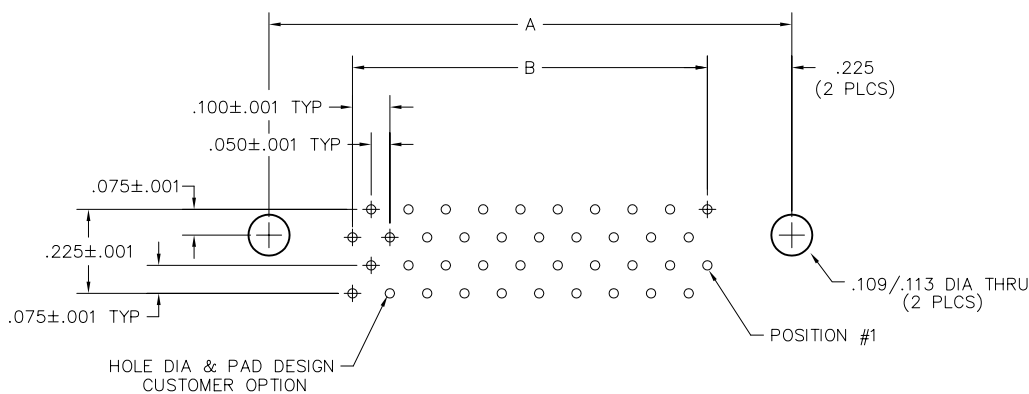
2 • ROW Right Angle PTH Plug

.050"

WB

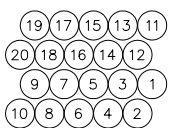
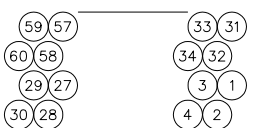
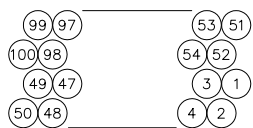
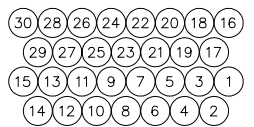
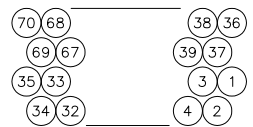
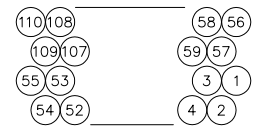
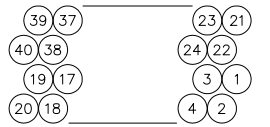
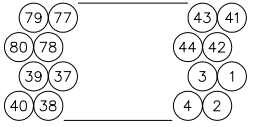
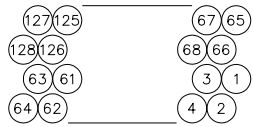
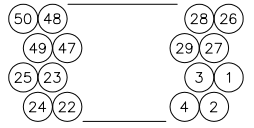
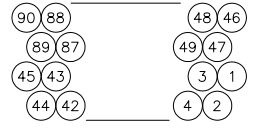
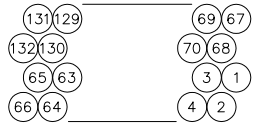
20 thru 132 Contacts

Recommended
Board Layout



DIMENSIONS		
SIZE	A	B
20	.900	.450
30	1.150	.700
40	1.400	.950
50	1.650	1.200
60	1.900	1.450
70	2.150	1.700
80	2.400	1.950
90	2.650	2.200
100	2.900	2.450
110	3.150	2.700
128	3.600	3.150
132	3.700	3.250

RIGHT ANGLE PTH PLUG
PC BOARD VIEWED FROM COMPONENT SIDE

SIZE	CONTACT ID	SIZE	CONTACT ID	SIZE	CONTACT ID
20		60		100	
30		70		110	
40		80		128	
50		90		132	



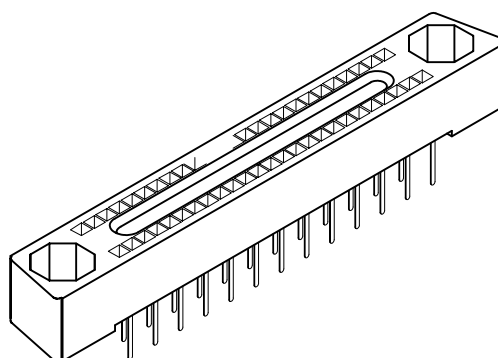
2 • ROW Straight PTH Rcpt

.050"

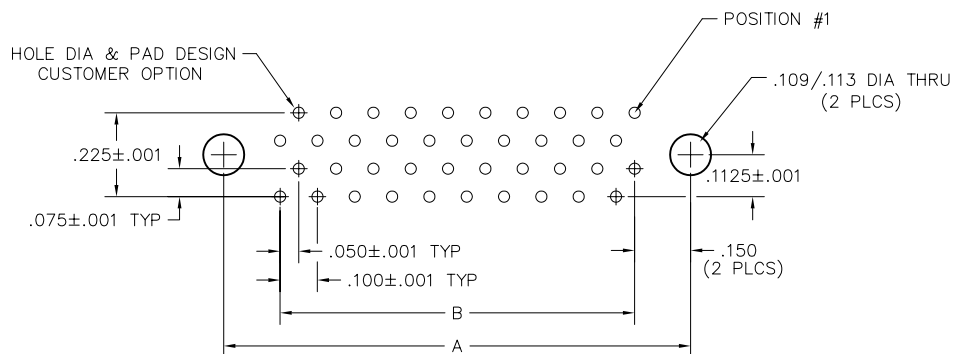
WB

20 thru 132 Contacts

Recommended
Board Layout



DIMENSIONS		
SIZE	A	B
20	.750	.450
30	1.000	.700
40	1.250	.950
50	1.500	1.200
60	1.750	1.450
70	2.000	1.700
80	2.250	1.950
90	2.500	2.200
100	2.750	2.450
110	3.000	2.700
128	3.450	3.150
132	3.550	3.250



STRAIGHT PTH RECEPTACLE
PC BOARD VIEWED FROM COMPONENT SIDE

SIZE	CONTACT ID	SIZE	CONTACT ID	SIZE	CONTACT ID
20		60		100	
30		70		110	
40		80		128	
50		90		132	



Military Cross Reference Chart

MIL Number	WB Series	Size	Description
M55302/117-01	WB20PR8	20	Right angle plug, 3/4 skirt
M55302/117-02	WB30PR8	30	Right angle plug, 3/4 skirt
M55302/117-03	WB40PR8	40	Right angle plug, 3/4 skirt
M55302/117-04	WB50PR8	50	Right angle plug, 3/4 skirt
M55302/117-05	WB60PR8	60	Right angle plug, 3/4 skirt
M55302/117-06	WB70PR8	70	Right angle plug, 3/4 skirt
M55302/117-07	WB80PR8	80	Right angle plug, 3/4 skirt
M55302/117-08	WB90PR8	90	Right angle plug, 3/4 skirt
M55302/117-09	WB100PR8	100	Right angle plug, 3/4 skirt
M55302/117-10	WB110PR8	110	Right angle plug, 3/4 skirt
M55302/117-11	WB128PR8	128	Right angle plug, 3/4 skirt
M55302/118-01	WBB20PMT	20	Surface mount, no skirt
M55302/118-02	WBB30PMT	30	Surface mount, no skirt
M55302/118-03	WBB40PMT	40	Surface mount, no skirt
M55302/118-04	WBB50PMT	50	Surface mount, no skirt
M55302/118-05	WBB60PMT	60	Surface mount, no skirt
M55302/118-06	WBB70PMT	70	Surface mount, no skirt
M55302/118-07	WBB80PMT	80	Surface mount, no skirt
M55302/118-08	WBB90PMT	90	Surface mount, no skirt
M55302/118-09	WBB100PMT	100	Surface mount, no skirt
M55302/118-10	WBB110PMT	110	Surface mount, no skirt
M55302/118-11	WBB128PMT	128	Surface mount, no skirt
M55302/118-12	WBA20PMT	20	Surface mount, full skirt
M55302/118-13	WBA30PMT	30	Surface mount, full skirt
M55302/118-14	WBA40PMT	40	Surface mount, full skirt
M55302/118-15	WBA50PMT	50	Surface mount, full skirt
M55302/118-16	WBA60PMT	60	Surface mount, full skirt
M55302/118-17	WBA70PMT	70	Surface mount, full skirt
M55302/118-18	WBA80PMT	80	Surface mount, full skirt
M55302/118-19	WBA90PMT	90	Surface mount, full skirt
M55302/118-20	WBA100PMT	100	Surface mount, full skirt
M55302/118-21	WBA110PMT	110	Surface mount, full skirt
M55302/118-22	WBA128PMT	128	Surface mount, full skirt
M55302/119-01	WB20SD9/12	20	Receptacle, .140 and .190 lead length
M55302/119-02	WB30SD9/12	30	Receptacle, .140 and .190 lead length
M55302/119-03	WB40SD9/12	40	Receptacle, .140 and .190 lead length
M55302/119-04	WB50SD9/12	50	Receptacle, .140 and .190 lead length
M55302/119-05	WB60SD9/12	60	Receptacle, .140 and .190 lead length
M55302/119-06	WB70SD9/12	70	Receptacle, .140 and .190 lead length
M55302/119-07	WB80SD9/12	80	Receptacle, .140 and .190 lead length
M55302/119-08	WB90SD9/12	90	Receptacle, .140 and .190 lead length
M55302/119-09	WB100SD9/12	100	Receptacle, .140 and .190 lead length
M55302/119-10	WB110SD9/12	110	Receptacle, .140 and .190 lead length
M55302/119-11	WB128SD9/12	128	Receptacle, .140 and .190 lead length
M55302/119-12	WB100SD19	100	Receptacle, .300 lead length
M55302/119-13	WB110SD19	110	Receptacle, .300 lead length
M55302/119-14	WB128SD12	128	Receptacle, .190 lead length

The AirBorn Advantage

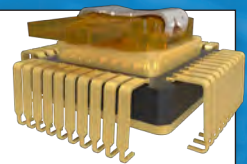
Model-To-Market
Solutions



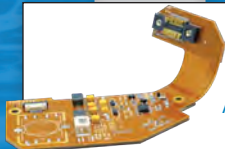
Rugged
Power
Systems



Photonics/
Optoelectronics



Flexible
Circuit
Assemblies



Cable
Assemblies



FUZE
Assemblies



Active
Optical
Assemblies



Rectangular
W Series



Rectangular
R Series



Micro D
M Series



Nano D
N Series



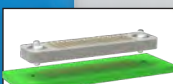
Rectangular
25Gbps
verSI



Modular Hybrid
SInergy



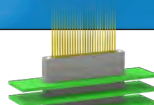
Z Axis Interposer
Z Series



High-Speed
Micro D
microSI



Stackable
RC & RCII Series



Circular
Series 360



Strip Connector
AirStrip



PowerAmp
13A or 23A Power



Macro D
RockKet



WSC-12.22

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