

Amphenol Taiwan Corporation

Product Change Notification

Part Numbers Concerned :	GSB311231HR GSB31121XHR	Originator:	Debby Hung
Customer P/N:		Issue Date:	2021/06/16
Product Description:	USB 3.0 CONNECTOR STANDARD A, STACKED, R/A DIP TYPE	PCN NO:	1210-21001041
Distribution:			

Product Change Notice

Background:

Tooling now is too old, and almost broken, and hard to keep manufacturing components. Amphenol has been duplicated the new tooling, and improved the design and material change.

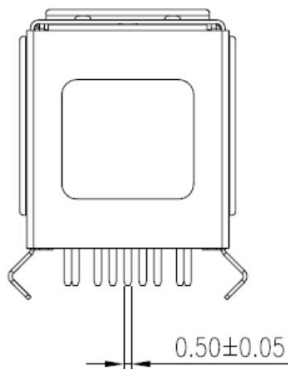
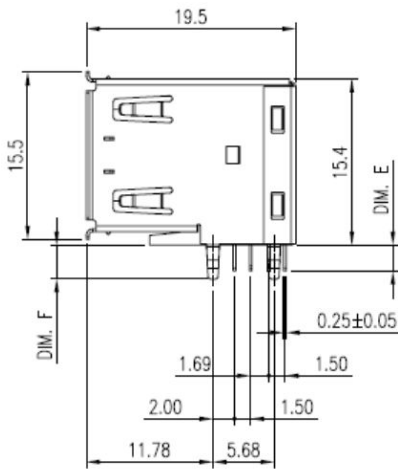
Design change including:

1. The gap increasing between shell and PCB is to avoid short circuit and raise safety factor, and stand-off area change of housing is to avoid soldering overlapping.

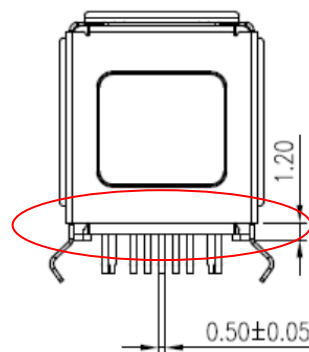
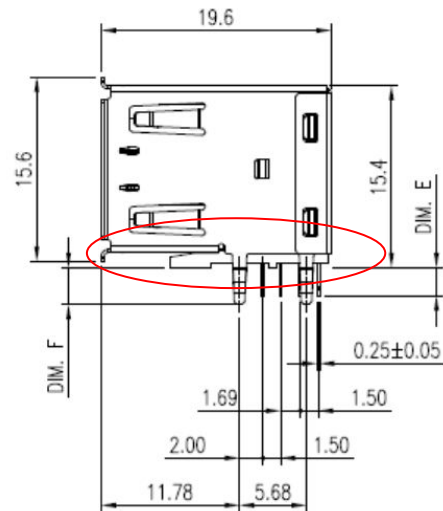
P/N: (GSB311231HR)->GSB3112XXXHR: REV:D1 -->

New P/N: GSB3112XXXHR:REV: E1

Old version part:

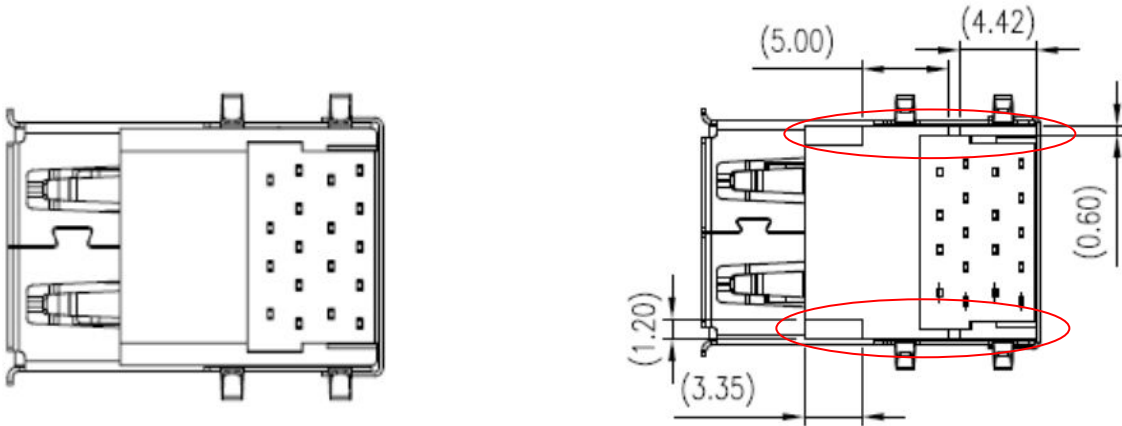


New version part: Update shell bottom outline



Amphenol Taiwan Corporation Product Change Notification

(Update plastic stand off)



2. Drawing, GSB31121XHR, was void, and combines the P/N to GSB311231HR drawing.
3. The option for P/N GSB311214HR was PA9T which's removed by new version drawing.

ORIGINAL

PART NUMBER: GSB3 112 X X X HR

CONTACT FINISH: 3: 30µ" GOLD

INSULATOR AND COLOR:
1: LCP, Blue
3: LCP, Black

SOLDER TAIL LENGTH / PACKING

PART NO	DIM. E	DIM. F	PACKING
"BLANK"	2.4	3.0	TRAY
"1"	3.0	3.5	TRAY
"A"	2.4	3.0	T&R
"B"	3.0	3.5	T&R

PART NUMBER: GSB3 112 X X X HR

CONTACT FINISH: 1: GOLD FLASH
3: 30µ" GOLD

INSULATOR AND COLOR:
1: LCP, Blue
3: LCP, Black

SOLDER TAIL LENGTH / PACKING

PART NO	DIM. E	DIM. F	PACKING
"BLANK"	2.4	3.0	TRAY
"1"	3.0	3.5	TRAY
"A"	2.4	3.0	T&R
"B"	3.0	3.5	T&R

PART NUMBER: GSB3 112 1 X HR

CONTACT FINISH: 1: GOLD FLASH

INSULATOR AND COLOR:
1: LCP, Blue
4: Nylon 9T, Blue

4. Update drawing number GSB311231HR to GSB3112XXXHR drawing number.

TITLE USB 3.0 CONNECTOR STANDARD A, STACKED, R/A DIP TYPE		Amphenol [®] Amphenol Corporation Amphenol Taiwan Corporation	
	UNIT mm	SIZE A3	PART No. GSB3 112 XX XHR
	SCALE NA	SHEET 2 OF 3	DWG No. GSB311231HR REV. D1

TITLE USB 3.0 CONNECTOR STANDARD A, STACKED, R/A DIP TYPE		Amphenol [®] Amphenol Corporation Amphenol Taiwan Corporation	
	UNIT mm	SIZE A3	PART No. GSB3112XXXHR
	SCALE NA	SHEET 1 OF 3	DWG No. GSB3112XXXHR REV. E1

5. Update Packing drawing.

TOLERANCE	APPROVALS	DATE	REV	DESCRIPTION
±0.10	Debyi Hwang	08/16/2017	1	USB 3.0 CONNECTOR STANDARD A, STACKED, R/A DIP TYPE
±0.05	Sandy Wu	08/16/2017	2	
±0.10	Arlan Li	08/16/2017	3	

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PACKAGING	11.36	8.92	1.00	1.0	1500	GSB3112XXXHR
BY TRAY	10.76	7.94	1.00	1.0	1500	
BY TRAY	10.76	7.94	1.00	1.0	1500	

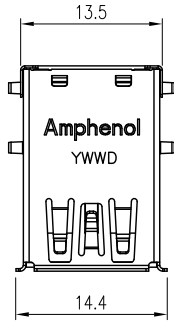
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The marking on this product doesn't contain environmental hazardous materials per directive 2011/65/EU & 2015/863/EU for RoHS compliant and per IEC 61249-2-21 for Halogen-Free compliant.

FOR REFERENCE ONLY



REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	BY
D1	NE-17157	ADD T&R OPTION	2017-08-16	Arron Lin
E1X1	ECR#*563	ADD 14.47 & 15.93mm DIM	2018-09-28	Roger Tsai
E1X2		UPDATE DRAWING AND PACKING	2021-05-24	Debby Hung
E1X3		COMBINE DRAWING UPDATE FROM GSB311231HR TO GSB3112XXXHR	2021-06-09	Debby Hung



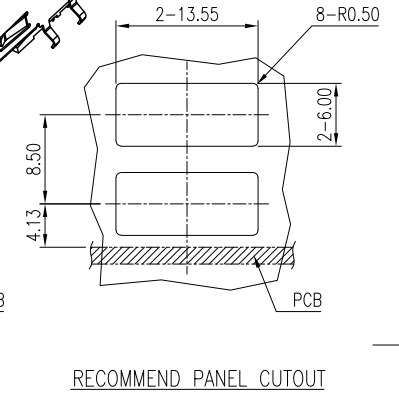
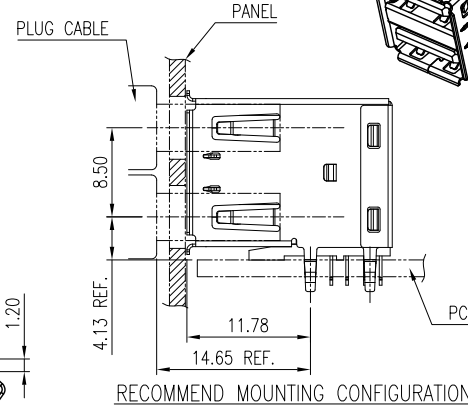
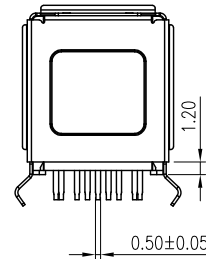
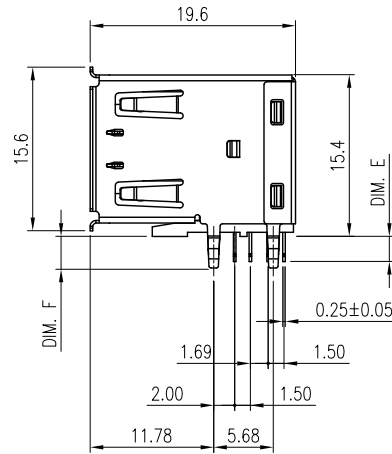
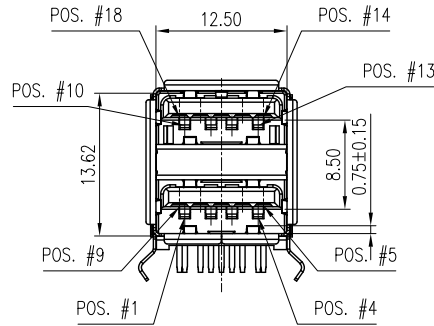
PART NUMBER:
GSB3 112 X X X HR

CONTACT FINISH
1: GOLD FLASH
3: 30μ" GOLD

SOLDER TAIL LENGTH / PACKING

PART NO	DIM. E	DIM. F	PACKING
"BLANK"	2.4	3.0	TRAY
"1"	3.0	3.5	TRAY
"A"	2.4	3.0	T&R
"B"	3.0	3.5	T&R

INSULATOR AND COLOR
1: LCP, Blue
3: LCP, Black

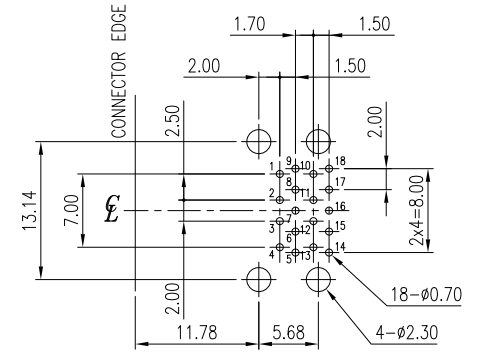


NOTES:

- HOUSING: HIGH TEMPERATURE THERMOPLASTIC, UL 94V-0, COLOR- BLUE (PANTONE 300C) OR BLACK
- BOTTOM COVER: HIGH TEMPERATURE THERMOPLASTIC, UL 94V-0, COLOR- BLUE (PANTONE 300C) OR BLACK
- CONTACT: COPPER ALLOY, 0.25mm THICKNESS, 30μ" MIN. GOLD PLATED ON CONTACT AREA, 120μ" MIN. MATTE TIN PLATED ON SOLDERING TAIL, 80μ" MIN. NICKEL UNDER-PLATED OVERALL
- FRONT SHELL: STAINLESS STEEL, 0.25mm THICKNESS, 30μ" MIN. NICKEL PLATED OVER ALL
- MIDDLE SHELL: STAINLESS STEEL, 0.25mm THICKNESS,
- REAR SHELL: STAINLESS STEEL, 0.2mm THICKNESS,
- PRODUCT SPECIFICATION SHALL FOLLOW PS-7411 (>30u" GOLD) PRODUCT SPECIFICATION SHALL FOLLOW PS-7440 (<30u" GOLD)
- THIS PRODUCT DOESN'T CONTAIN ENVIRONMENTAL HAZARDOUS PER DIRECTIVE 2011/65/EU & 2015/863/EU FOR RoHS COMPLIANT. AND PER IEC 61249-2-21 FOR HALOGEN-FREE COMPLIANT.

PIN #	PIN #	SIGNAL NAME
1	10	VBUS
2	11	D-
3	12	D+
4	13	GND
5	14	SSRX-
6	15	SSRX+
7	16	GND_DRAIN
8	17	SSTX-
9	18	SSTX+
SHELL		SHIELD

PIN ASSIGNMENT



TOLERANCE	APPROVALS	DATE	TITLE	UNIT	SIZE	PART No.
X. ±0.30	DRAWN Debby Hung	2021-06-09	USB 3.0 CONNECTOR STANDARD A, STACKED, R/A DIP TYPE	mm	A3	GSB3112XXXHR
X.X ±0.20	CHECKED Sandy Wu	2021-06-09				
X.XXX ±0.10	APPROVED Roger Tsai	2021-06-09				
ANGULAR ±1°	DWG TYPE CUST DWG	PROJECT CODE OTHER		SCALE NA	SHEET 1 OF 3	DWG No. GSB3112XXXHR
UNLESS OTHERWISE SPECIFIED						REV. E1X3

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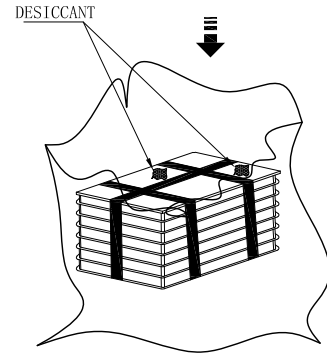
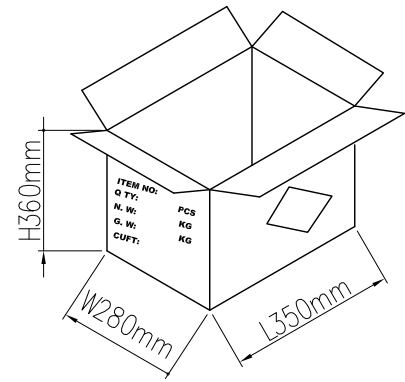
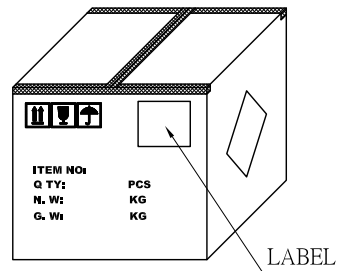
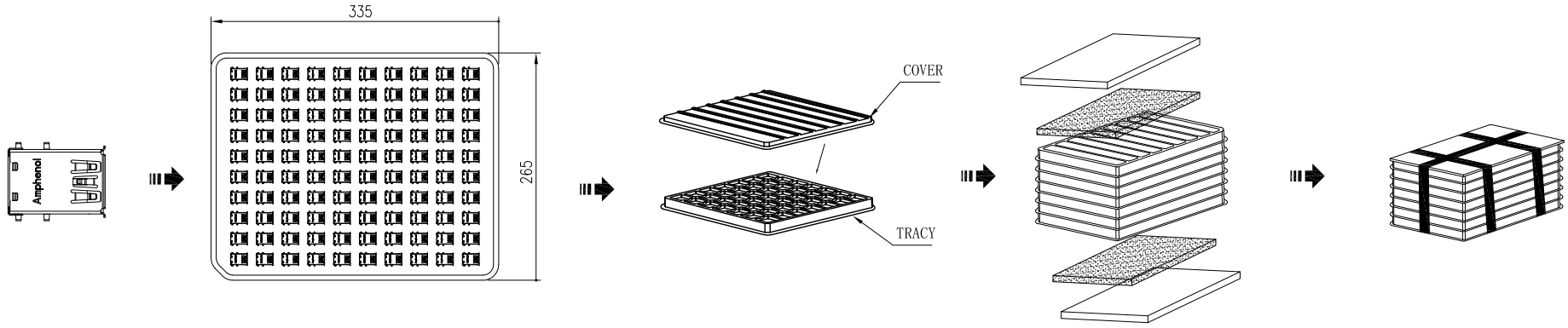
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REVISIONS					
SYM	ECN No.	DESCRIPTION	DATE	BY	
D1	NE-17157	ADD T&R OPTION	2017-08-16	Arron Lin	
E1X1	ECR#*563	ADD 14.47 & 15.93mm DIM	2018-09-28	Roger Tsai	
E1X2		UPDATE DRAWING AND PACKING	2021-05-24	Debby Hung	
E1X3		COMBINE DRAWING UPDATE FROM GSB311231HR TO GSB3112XXXHR	2021-06-09	Debby Hung	



PACKAGING BY TRAY	11.96	8.92	100	15	1500	GSB3112XXXHR
	G/W KG	N/W KG	PCS/TRAY	TRAYS/BOX	QUANTITY (PCS)	PART NUMBER

TOLERANCE	APPROVALS	DATE	TITLE	UNIT	SIZE	PART No.
X.	DRAWN Debby Hung	2021-06-09	USB 3.0 CONNECTOR STANDARD A, STACKED, R/A DIP TYPE	mm	A3	Amphenol® Amphenol Corporation Amphenol Taiwan Corporation
X.X ±0.30	CHECKED Sandy Wu	2021-06-09				
X.XX ±0.20	APPROVED Roger Tsai	2021-06-09				
X.XXX ±0.10	DWG TYPE CUST DWG	PROJECT CODE OTHER				
ANGULAR ±1°				SCALE NA	SHEET 2 OF 3	GSB3112XXXHR
UNLESS OTHERWISE SPECIFIED						REV. E1X3

A

B

C

D

E

F

A

B

C

D

E

F

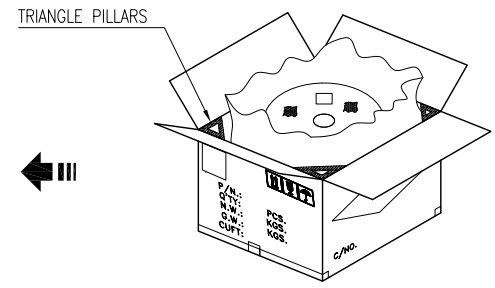
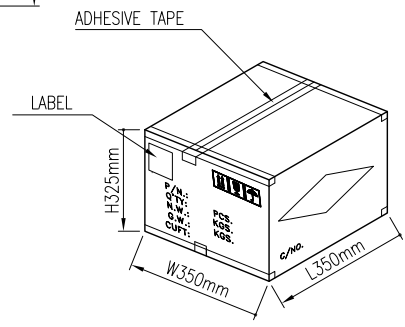
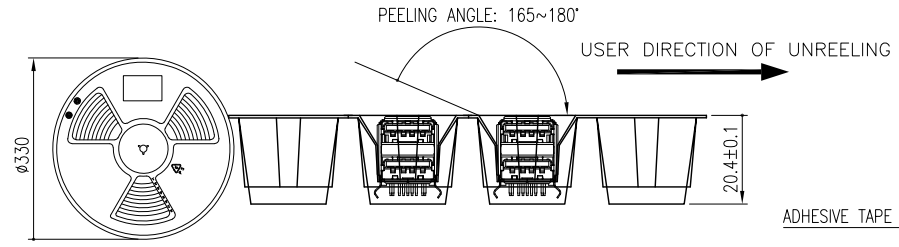
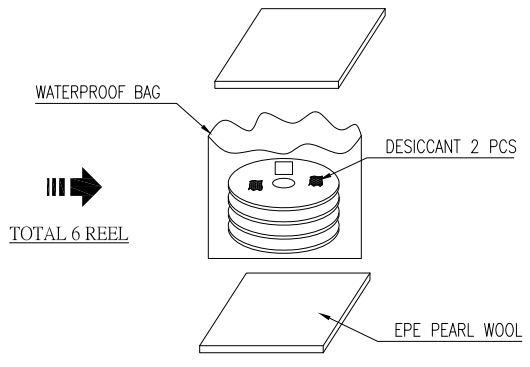
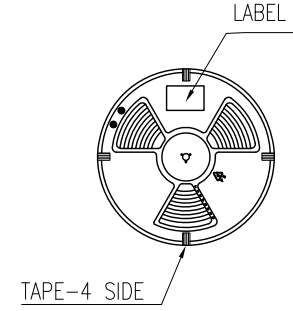
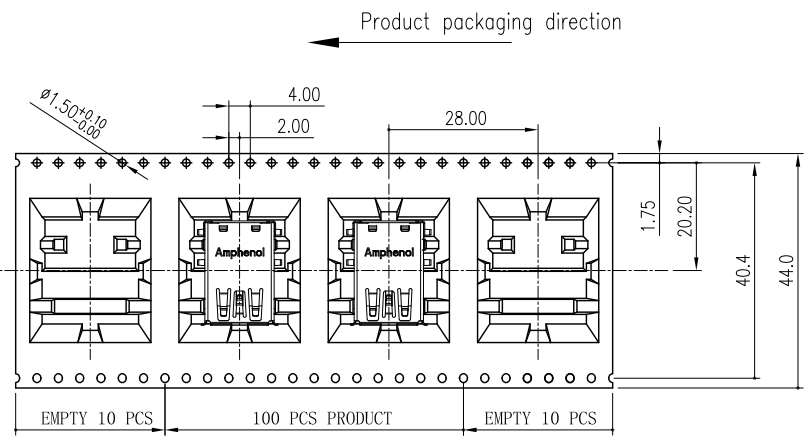
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REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	BY
D1	NE-17157	ADD T&R OPTION	2017-08-16	Arron Lin
E1X1	ECR#*563	ADD 14.47 & 15.93mm DIM	2018-09-28	Roger Tsai
E1X2		UPDATE DRAWING AND PACKING	2021-05-24	Debby Hung
E1X3		COMBINE DRAWING UPDATE FROM GSB311231HR TO GSB3112XXXHR	2021-06-09	Debby Hung



- NOTES:
- MATERIAL:
CARRIER TAPE: PS. COLOR: BLACK.
SHIPPING BOX: CORRUGATED FIBERBOARD.
 - PEELING STRENGTH: 20gF~100gF
 - PEELING SPEED: 300mm/min.

PACKAGING BY T&R	6.38	3.57	100	6	600	GSB3112XXXHR
	G/W KG	N/W KG	PCS/ REEL	REELS/ BOX	QUANTITY (PCS)	PART NUMBER

TOLERANCE	APPROVALS	DATE	TITLE	UNIT	SIZE	PART No.
X. ±0.30	DRAWN Debby Hung	2021-06-09	USB 3.0 CONNECTOR STANDARD A, STACKED, R/A DIP TYPE	mm	A3	GSB3112XXXHR
X.X ±0.20	CHECKED Sandy Wu	2021-06-09				
X.XX ±0.10	APPROVED Roger Tsai	2021-06-09				
ANGULAR ±1°	DWG TYPE CUST DWG	PROJECT CODE OTHER		SCALE NA	SHEET 3 OF 3	GSB3112XXXHR
UNLESS OTHERWISE SPECIFIED						REV. E1X3

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The marking on this product doesn't contain environmental hazardous material and must follow one or more specifications per Material Specification 55-00259 for Sony GP compliant or per directive 2002/95/EC for RoHS compliant or per IEC 61249-2-21 for Halogen Free compliant.

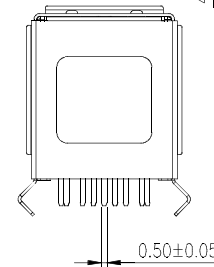
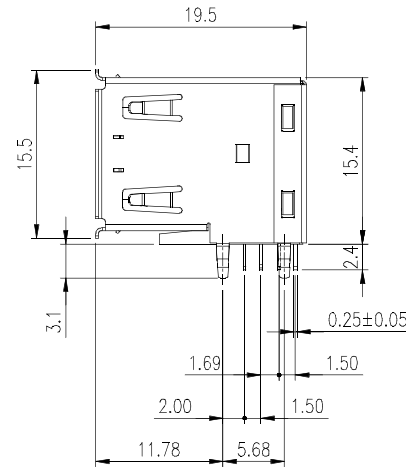
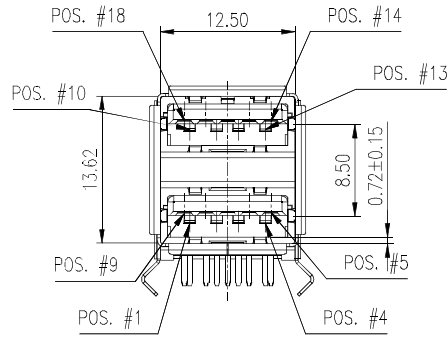
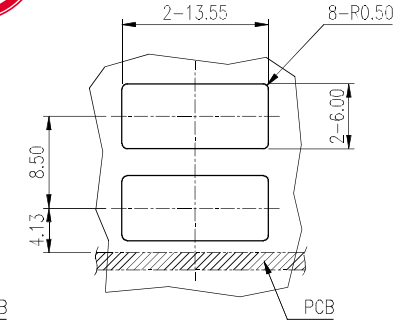
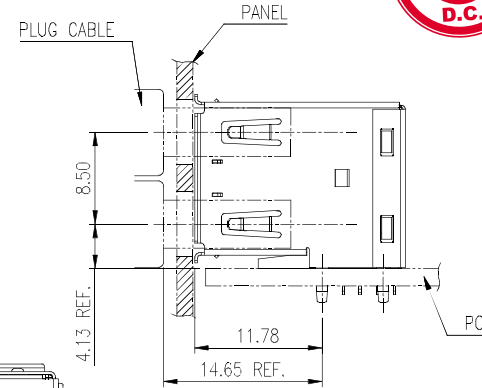
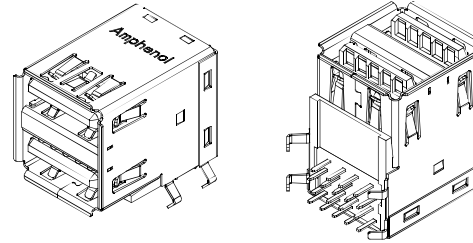
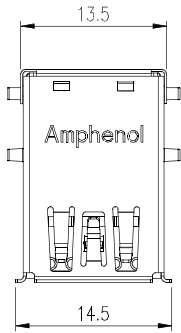
ORIGINAL

REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	BY
A		PRODUCTION TO RELEASE	09/21/2010	Sandra Sang
B	NE-11083	ADDED PANEL CUTOUT	06/23/2011	Sandra Sang
C	NE-15033	ADD SHRAPNEL HEIGHT DIM	08/11/2015	Arron Lin

PART NUMBER:
GSB3 112 1 X HR

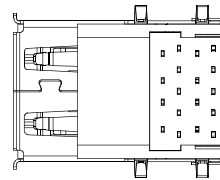
CONTACT FINISH
1: GOLD FLASH

INSULATOR AND COLOR
1: LCP, Blue
4: Nylon 9T, Blue



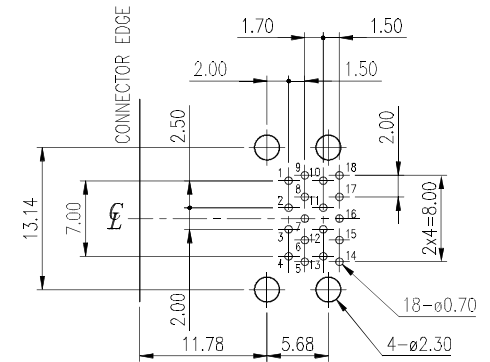
RECOMMEND MOUNTING CONFIGURATION

RECOMMEND PANEL CUTOUT



PIN #	PIN #	SIGNAL NAME
1	10	VBUS
2	11	D-
3	12	D+
4	13	GND
5	14	SSRX-
6	15	SSRX+
7	16	GND_DRAIN
8	17	SSTX-
9	18	SSTX+
SHELL		SHIELD

PIN ASSIGNMENT

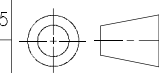


RECOMMENDED PCB LAYOUT- TOP VIEW
(GENERAL TOLERANCE: ±0.05)

NOTES:

- HOUSING: HIGH TEMPERATURE THERMOPLASTIC, UL 94V-0, COLOR- BLUE (PANTONE 300C)
- BOTTOM COVER: HIGH TEMPERATURE THERMOPLASTIC, UL 94V-0, COLOR- BLUE (PANTONE 300C)
- CONTACT: COPPER ALLOY, 0.25mm THICKNESS, GOLD FLASH PLATED ON CONTACT AREA, 120µ" MIN. MATTE TIN PLATED ON SOLDERING TAIL, 80µ" MIN. NICKEL UNDER-PLATED OVERALL
- FRONT SHELL: STAINLESS STEEL, 0.25mm THICKNESS, 50µ" MIN. NICKEL PLATED OVER ALL
- MIDDLE SHELL: STAINLESS STEEL, 0.25mm THICKNESS,
- REAR SHELL: STAINLESS STEEL, 0.2mm THICKNESS,
- PRODUCT SPECIFICATION SHALL FOLLOW PS-7440
- THIS PRODUCT DOESN'T CONTAIN ENVIRONMENTAL HAZARDOUS MATERIALS PER DIRECTIVE 2011/65/EU FOR RoHS COMPLIANT.

TOLERANCE	APPROVALS	DATE	TITLE
X. ±0.30	DRAWN	08/11/2015	USB 3.0 CONNECTOR STANDARD A, STACKED, R/A DIP TYPE
X.X ±0.20	DEB	08/11/2015	
X.XX ±0.10	CHECKED	08/11/2015	
ANGULAR ±1°	APPROVED	08/11/2015	UNIT mm SIZE A3 PART No. GSB3 112 1X HR
UNLESS OTHERWISE SPECIFIED	DWG TYPE	PROJECT CODE	
	CUST DWG	OTHER	



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ORIGINAL

PART NUMBER:
GSB3 112 X X X HR

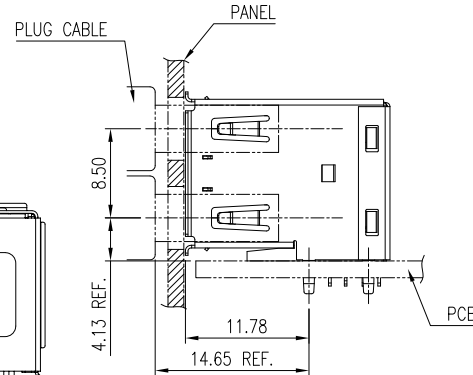
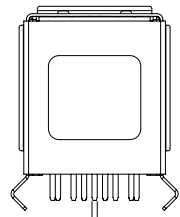
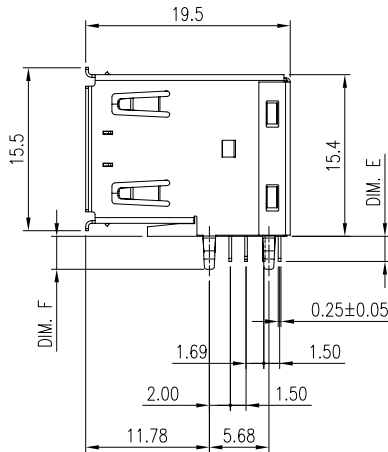
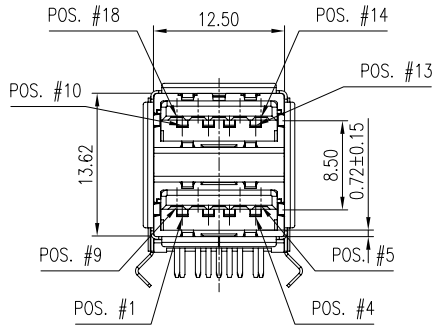
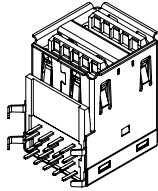
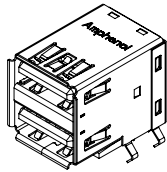
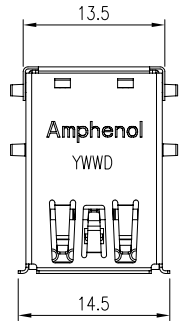
CONTACT FINISH: 3: 30μ" GOLD
SOLDER TAIL LENGTH / PACKING

PART NO	DIM. E	DIM. F	PACKING
"BLANK"	2.4	3.0	TRAY
"1"	3.0	3.5	TRAY
"A"	2.4	3.0	T&R
"B"	3.0	3.5	T&R

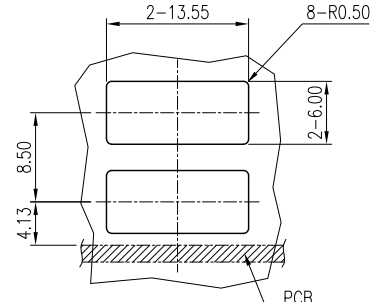
INSULATOR AND COLOR
1: LCP, Blue
3: LCP, Black



REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	BY
A		RELEASE TO PRODUCTION	07/02/2010	Sondra Sang
B	NE-10119	MODIFIED THE FRONT SHELL PLATING	07/28/2010	Sondra Sang
C	NE-10123	MODIFIED PINS	08/06/2010	Sondra Sang
D	NE-10161	MODIFIED MATERIAL	10/06/2010	Sondra Sang
E	NE-11083	ADDED PANEL CUTOUT	06/23/2011	Sondra Sang
F	NE-14014	MODIFIED PINS ADDED OPTIONS	01/22/2014	Sondra Sang
A1	NE-15033	ADD SHRAPNEL HEIGHT DIM	08/11/2015	Arron Lin
B1	NE-16280	ADDED D/C PK	12/06/2016	Arron Lin
C1	NE-17112	REMOVE 2u" GOLD+30u" Pd-Ni AND NYLON OPTION	05/24/2017	Arron Lin
D1	NE-17157	ADD T&R OPTION	08/16/2017	Arron Lin



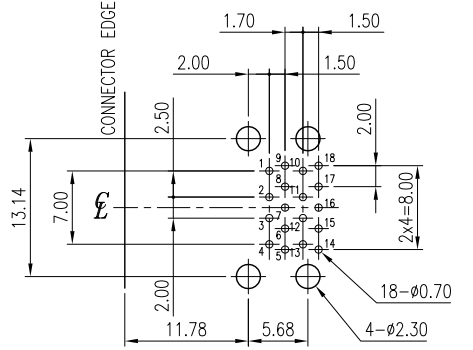
RECOMMEND MOUNTING CONFIGURATION



RECOMMEND PANEL CUTOUT

PIN #	PIN #	SIGNAL NAME
1	10	VBUS
2	11	D-
3	12	D+
4	13	GND
5	14	SSRX-
6	15	SSRX+
7	16	GND_DRAIN
8	17	SSTX-
9	18	SSTX+
SHELL		SHIELD

PIN ASSIGNMENT



RECOMMENDED PCB LAYOUT- TOP VIEW (GENERAL TOLERANCE: ±0.05)

NOTES:

- HOUSING: HIGH TEMPERATURE THERMOPLASTIC, UL 94V-0, COLOR- BLUE (PANTONE 300C) OR BLACK
- BOTTOM COVER: HIGH TEMPERATURE THERMOPLASTIC, UL 94V-0, COLOR- BLUE (PANTONE 300C) OR BLACK
- CONTACT: COPPER ALLOY, 0.25mm THICKNESS, 30μ" MIN. GOLD PLATED ON CONTACT AREA, 120μ" MIN. MATTE TIN PLATED ON SOLDERING TAIL, 80μ" MIN. NICKEL UNDER-PLATED OVERALL
- FRONT SHELL: STAINLESS STEEL, 0.25mm THICKNESS, 30μ" MIN. NICKEL PLATED OVER ALL
- MIDDLE SHELL: STAINLESS STEEL, 0.25mm THICKNESS,
- REAR SHELL: STAINLESS STEEL, 0.2mm THICKNESS,
- THIS PRODUCT DOESN'T CONTAIN ENVIRONMENTAL HAZARDOUS MATERIALS PER DIRECTIVE EU/2015/863 FOR RoHS AND PER IEC 61249-2-21 FOR HALOGEN FREE COMPLIANT.

TOLERANCE	APPROVALS	DATE	TITLE	UNIT	SIZE	PART No.
X. ±0.30	DRAWN Debby Hung	08/16/2017	USB 3.0 CONNECTOR STANDARD A, STACKED, R/A DIP TYPE	mm	A3	GSB3 112 XX XHR
X.X ±0.20	CHECKED Sandy Wu	08/16/2017				
X.XX ±0.20	APPROVED Arron Lin	08/16/2017		SCALE NA	SHEET 1 OF 3	DWG No. GSB311231HR
X.XXX ±0.10	DWG TYPE CUST DWG	PROJECT CODE OTHER				
ANGULAR ±1°						
UNLESS OTHERWISE SPECIFIED						REV. D1

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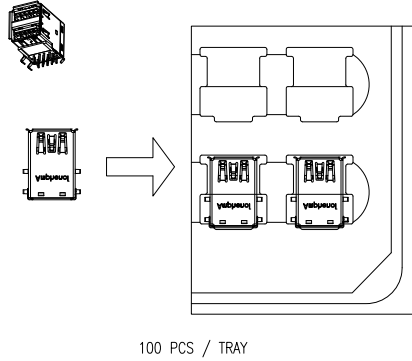
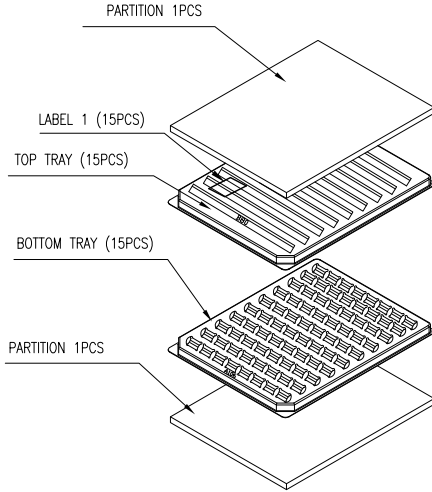
The marking on this product doesn't contain environmental hazardous material and must follow one or more specifications per Material Specification SS-00259 for Sony GP compliant or per directive EU/2015/863 for RoHS compliant or per IEC 61249-2-21 for Halogen Free compliant.



ORIGINAL

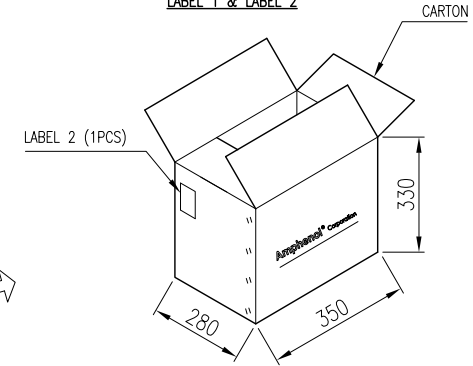
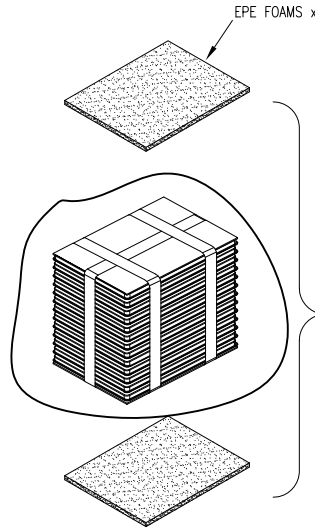
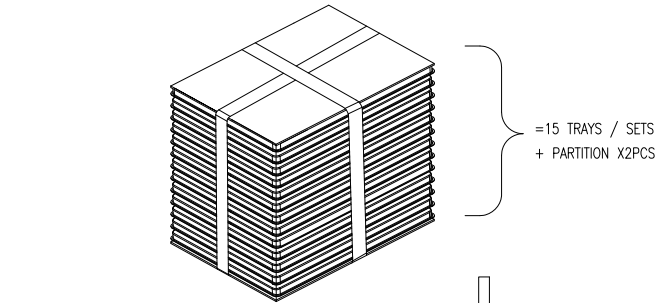


REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	BY
A		RELEASE TO PRODUCTION	07/02/2010	Sondra Sang
B	NE-10119	MODIFIED THE FRONT SHELL PLATING	07/28/2010	Sondra Sang
C	NE-10123	MODIFIED PINS	08/06/2010	Sondra Sang
D	NE-10161	MODIFIED MATERIAL	10/06/2010	Sondra Sang
E	NE-11083	ADDED PANEL CUTOUT	06/23/2011	Sondra Sang
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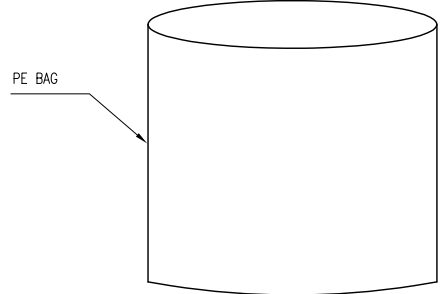


P/N : GSBX11231HR GSB311231HR	LABEL 1 = QTY : 100 LABEL 2 = QTY : 1500
QTY : 100 100	
P/O : 411-012345-001 411-012345-001	
DATE : 04 / 01 / 2010 MM / DD / YYYY	
G.W : 15.00 KG	RoHS
Amphenol Taiwan Corporation	

LABEL 1 & LABEL 2



- NOTES:
1. MATERIAL: TRAY- PET
 2. THICKNESS: 0.80 mm MINIMUM
 3. THE BARCODE MUST BE 3 OF 9 BARCODE
 4. COMPONENTS LOAD PER THE TRAY: 100 PCS.
 5. THIS PRODUCT DOESN'T CONTAIN ENVIRONMENTAL HAZARDOUS MATERIALS PER DIRECTIVE 2011/65/EC FOR RoHS COMPLIANT



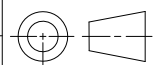
PART NO.	PCS. / TRAY	TRAY / CARTCON	N.W.	G.W.
GSBX112XXXHR	100 PCS.	100X15=1500 PCS.	*	* Kg

(***) FOR REFERENCE

TOLERANCE	APPROVALS	DATE	TITLE	UNIT	SIZE	PART No.
X. ±0.30	DRAWN Debby Hung	08/16/2017	USB 3.0 CONNECTOR STANDARD A, STACKED, R/A DIP TYPE	mm	A3	GSB3 112 XX XHR
X.X ±0.20	CHECKED Sandy Wu	08/16/2017		SCALE NA	SHEET 2 OF 3	
X.XX ±0.10	APPROVED Arron Lin	08/16/2017		PROJECT CODE OTHER		DWG No. GSB311231HR
ANGULAR ±1°	DWG TYPE CUST DWG					REV. D1
UNLESS OTHERWISE SPECIFIED						

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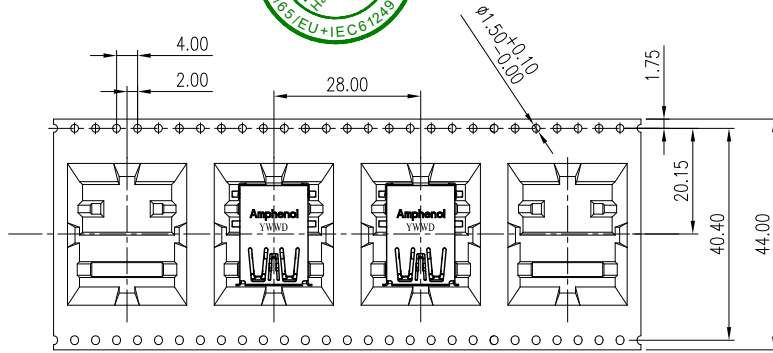
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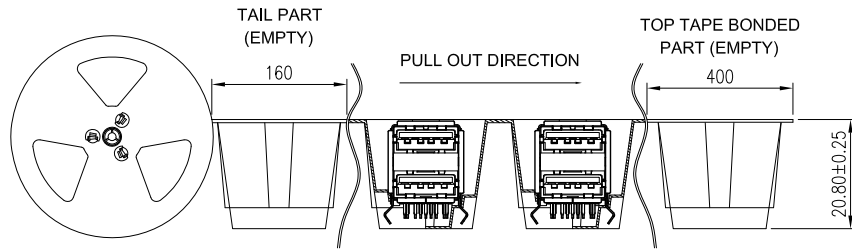
ORIGINAL



REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	BY
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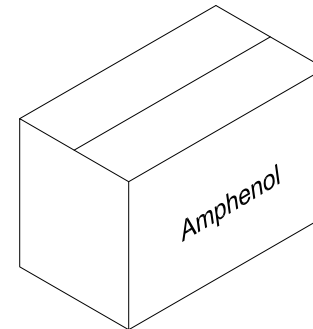
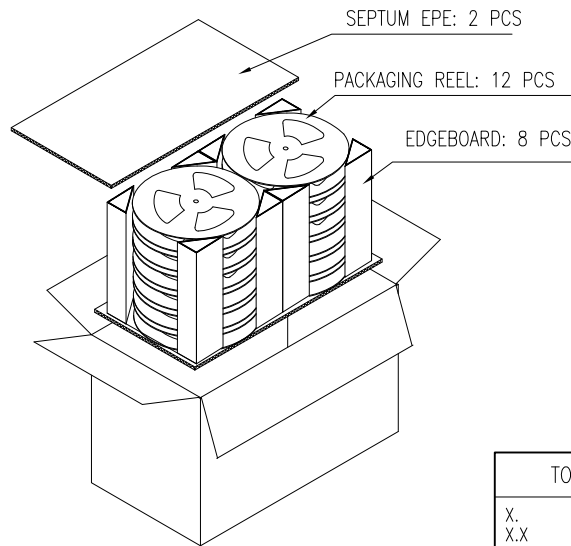


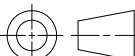
REEL SIZE	PARTS PER CARTON<S.P.Q>	PARTS PER REEL	TOTEL REEL PER CARTON
ø330	1200	100	12



NOTES:

1. STAPLES SHOULD ONLY BE USED TO SET UP CARTON. ALL CARTON CLOSURES MUST BE DONE WITH TAPE.
2. FILL PACKAGING TRAYS WITH THE QUANTITIES AS INDICATED IN THE CHART.
3. SHIPPING CARTON DIMENSION: 690 X 360 X 325mm.
4. NET WEIGHT: 6.74 KG. GROSS WEIGHT: 13.34 KG.



TOLERANCE		APPROVALS		DATE	TITLE		Amphenol®		
X.		DRAWN	Debby Hung	08/16/2017	USB 3.0 CONNECTOR STANDARD A, STACKED, R/A DIP TYPE		Amphenol Corporation Amphenol Taiwan Corporation		
X.X	±0.30	CHECKED	Sandy Wu	08/16/2017					
X.XX	±0.20	APPROVED	Arron Lin	08/16/2017					
X.XXX	±0.10	DWG TYPE		PROJECT CODE			UNIT	SIZE	PART No.
ANGULAR	±1°	CUST DWG		OTHER			mm	A3	GSB3 112 XX XHR
UNLESS OTHERWISE SPECIFIED					SCALE	SHEET	DWG No.		REV.
					NA	3 OF 3	GSB311231HR		D1