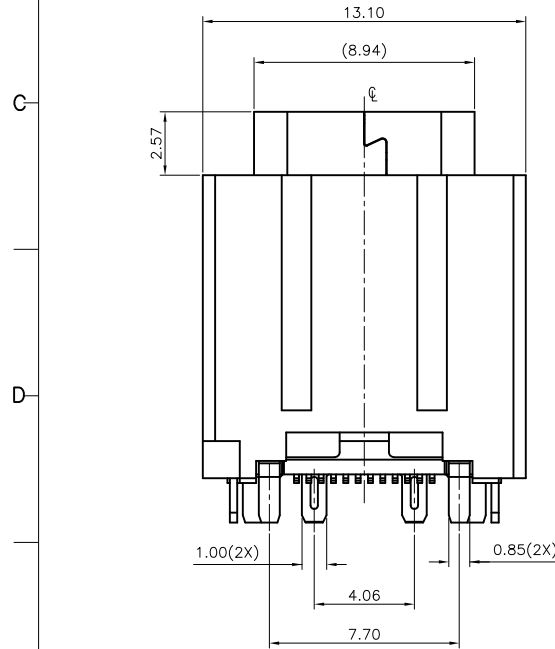
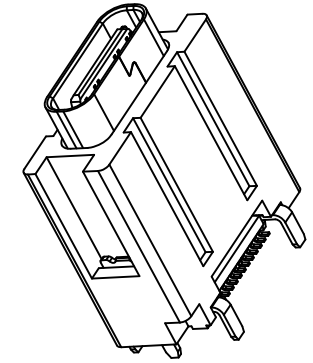
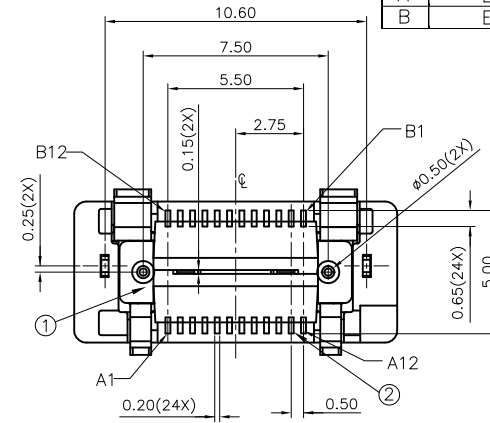
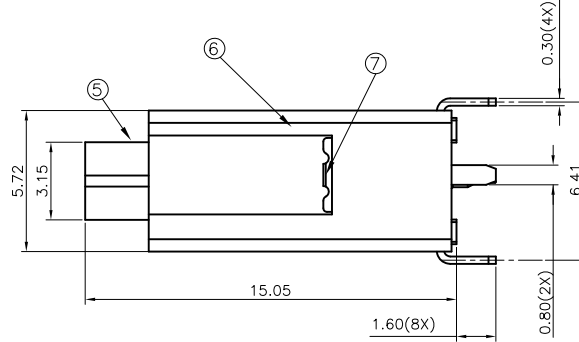
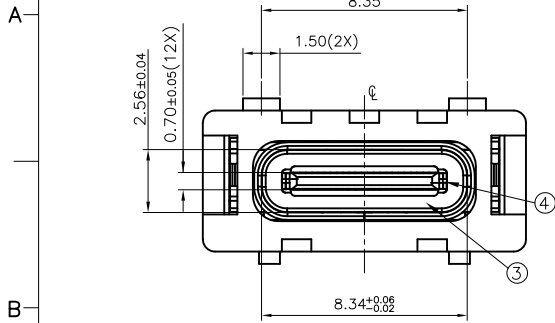


REV.	ECN NO.	APPD.
A	ECN170405005	Tommy Zhang
B	ECN171010014	Tommy Zhang



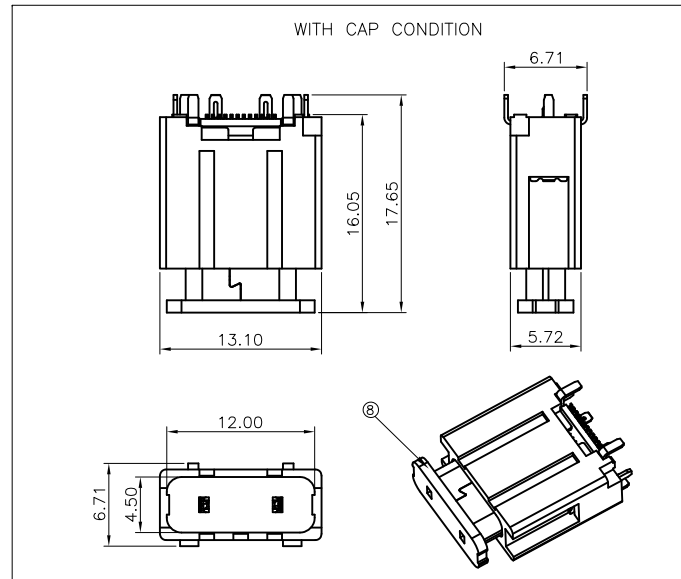
UB 0 1 24 * - 15 0 0 1 - 1 H

0: VERTICAL TYPE
 1: RECEPTACLE
 24: 24POS

CONTACT PLATING:
 6: 5u" GOLD PLATING ON CONTACT AREA
 7: 15u" GOLD PLATING ON CONTACT AREA
 8: 8u" GOLD PLATING ON CONTACT AREA
 9: 30u" GOLD PLATING ON CONTACT AREA

H: HALOGEN FREE & LEAD FREE
 PACKAGE CODE
 1: CARRIER TAPE
 1: EXTENSION CODE
 COLOR:
 0: BLACK
 0: SMT TYPE
 BODY HEIGHT
 15: 15.05mm

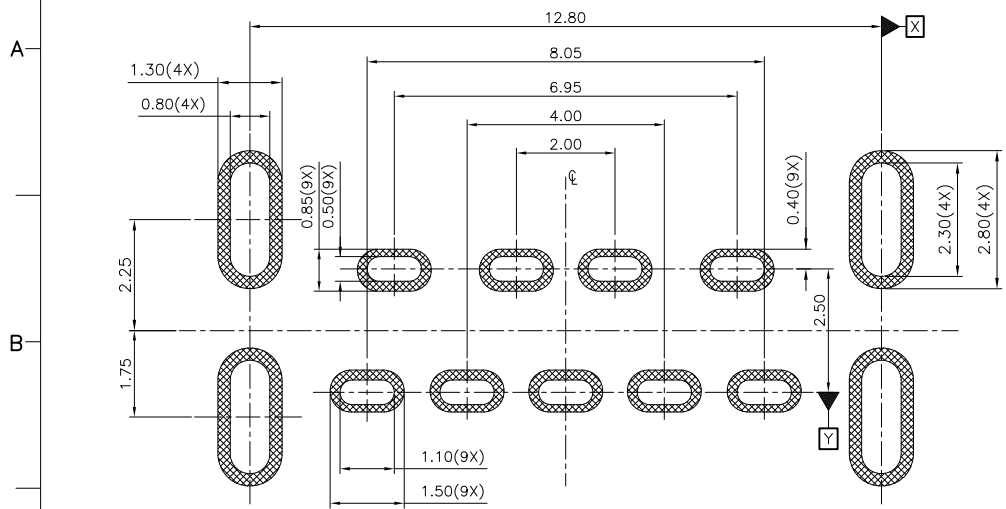
NOTES:
 1.MATERIAL: SEE TABLE.
 2.ELECTRICAL PERFORMANCES:
 2-1.VOLTAGE RATING: 20V DC MAX.
 2-2.CURRENT RATING:
 VBUS AND GND AT RATED OF 1.25A, PARALLELED FOR A TOTAL OF 5A.
 2-3.LOW LEVEL CONTACT RESISTANCE:
 60mΩ MAX. FOR VBUS,GND AND OTHE CONTACTS,
 70mΩ MAX. FINAL AFTER TEST.
 2-4.INSULATION RESISTANCE: 500 MΩ MIN.
 2-5.DIELECTRIC WITHSTANDING VOLTAGE:
 SUBJECT A VOLTAGE OF 100V AC FOR 1 MINUTE BETWEEN ADJACENT CONTACTS;
 3.MECHANICAL PERFORMANCES:
 3-1.MATING FORCE: 0.5~2.0Kgf.
 3-2.UNMATING FORCE: 0.8~2.0Kgf INITIAL, 0.6~2.0Kgf FINAL.
 3-3.DURABILITY: 10000 CYCLES.
 4.G.P PASSED ACCORD WITH RoHS STANDARD.



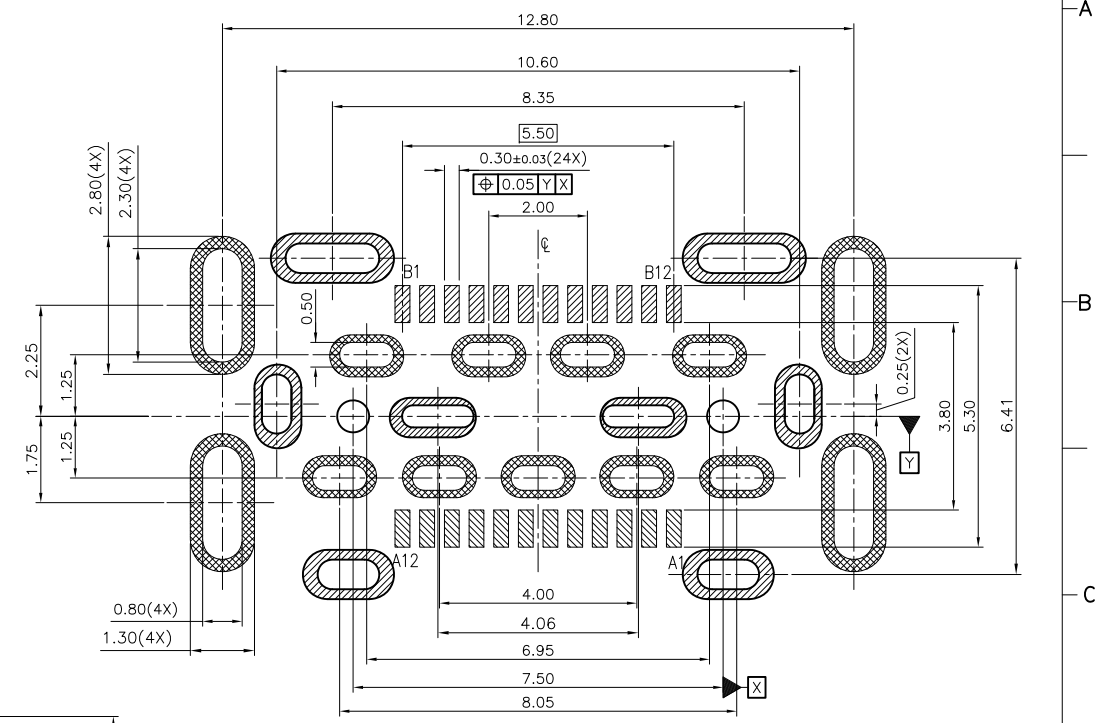
⑧	CAP	HIGHTEMP-PLASTIC	UL94V-0,COLOR:BLACK	
⑦	SUPPORT	STAINLESS STEEL	50u" MIN. NICKEL UNDER PLATED OVER ALL.	
⑥	SPACER	HIGHTEMP-PLASTIC	UL94V-0,COLOR:BLACK	
⑤	SHELL			
④	GND BLADE	STAINLESS STEEL	50u" MIN. NICKEL UNDER PLATED OVER ALL.	
③	SHIELD		MUST BE CLEAN	
②	SIGNAL CONTACT	COPPER ALLOY	GOLD PLATING ON CONTACT AREA, 1u" GOLD FLASH ON SOLDER AREA 50u" NICKEL UNDER PLATED OVER ALL.	
①	I/M	HIGHTEMP-PLASTIC	UL94V-0,COLOR:BLACK	
ITEM	NAME	MATERAIL	FINISH	REMARK

UNITS: mm	GENERAL TOLERANCE		APPROVED: Tommy Zhang	PART NO.: UB0124*-15001-1H
DATE: 10/10/17	X. ±0.50	X.* ±5.00'	CHECKED: Darren Lei	TITLE: CUSTOMER DRAWING FOR USB TYPE C VERTICAL TYPE
SCALE: 5:1	.X ±0.30	.X* ±3.00'	DRAWING: Carey Wang	DRAWING NO.: 820-0000-0500
SHEET: 1/5	MATERIAL: N/A	Q'TY: N/A	Highstar Drapho ELECTRONICS TECHNOLOGY CO., LTD	
REV. B	FINISH: N/A			





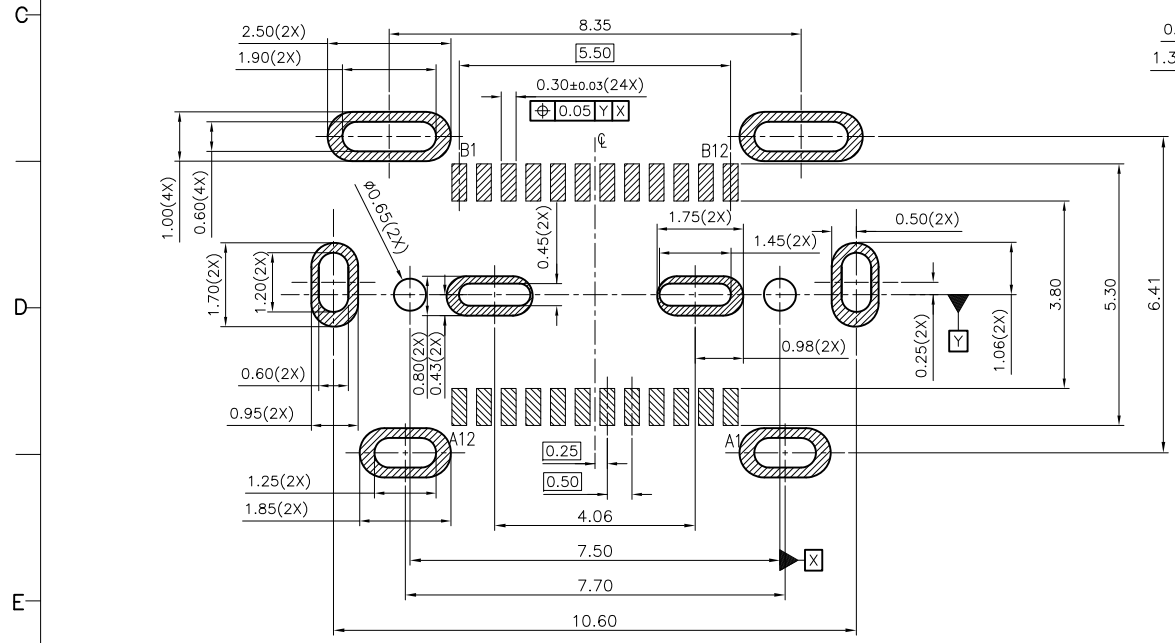


USB 3.0 RECOMMENDED PCB LAYOUT(TOP VIEW)
PCB THICKNESS 1.6±0.05mm





RECOMMENDED PCB LAYOUT(TOP VIEW)
PCB THICKNESS 1.6±0.05mm

 USB TYPE C LAYOUT
 USB 3.0 LAYOUT



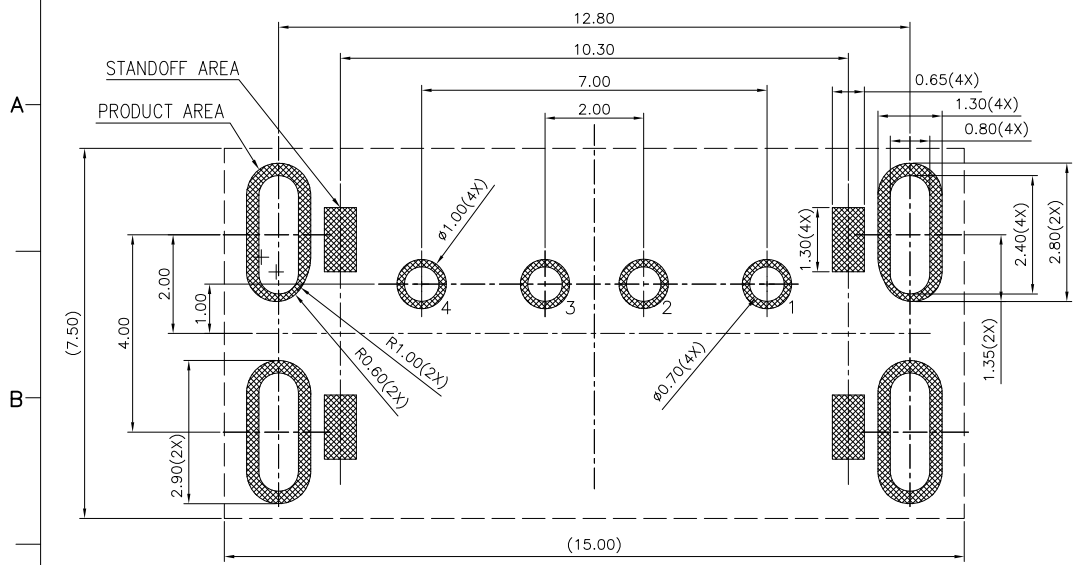
USB TYPE C RECOMMENDED PCB LAYOUT(TOP VIEW)
PCB THICKNESS 1.6±0.05mm

UNITS: mm	GENERAL TOLERANCE		APPROVED: Tommy Zhang	PART NO.: UB0124*-15001-1H
DATE: 10/10/17	X. ±0.20	X.* ±2.00'	CHECKED: Darren Lei	TITLE: CUSTOMER DRAWING FOR USB TYPE C VERTICAL TYPE
SCALE: 5:1	.X ±0.10	.X' ±1.00'	DRAWING: Carey Wang	DRAWING NO.: 820-0000-0500
SHEET: 2/5	MATERIAL: N/A	Q'TY N/A	 Highstar Drapho ELECTRONICS TECHNOLOGY CO., LTD	
REV. B	FINISH: N/A			

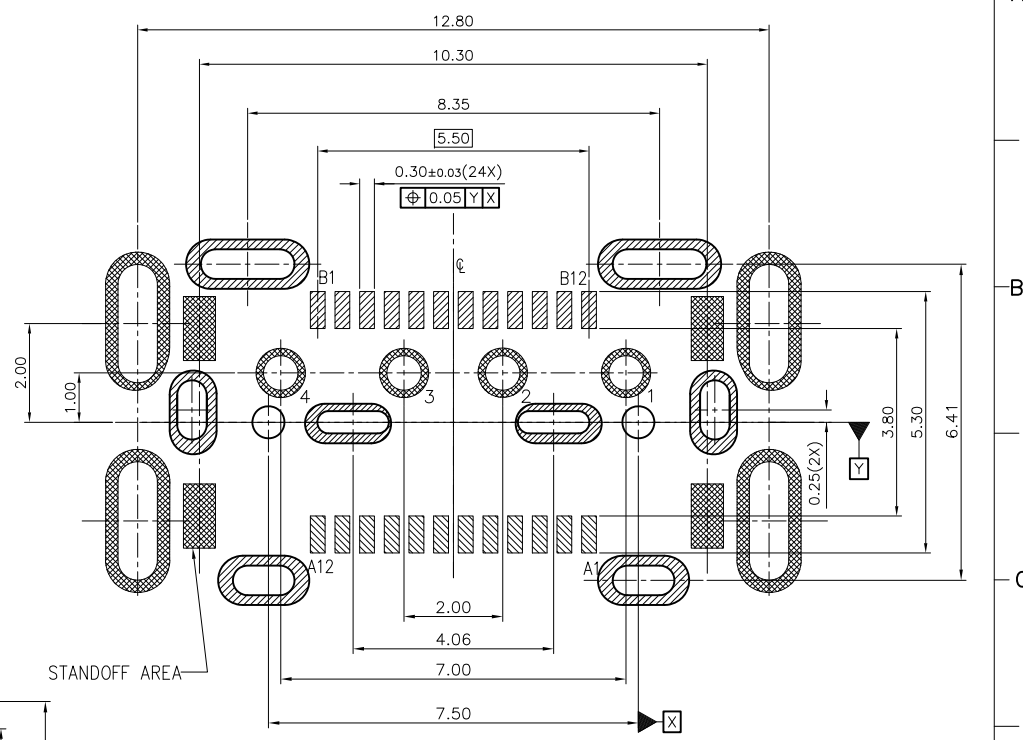


AUTOCAD GENERATED DRAWING,DON'T CHANGE BY HAND

REV.	ECN NO.	APPD.
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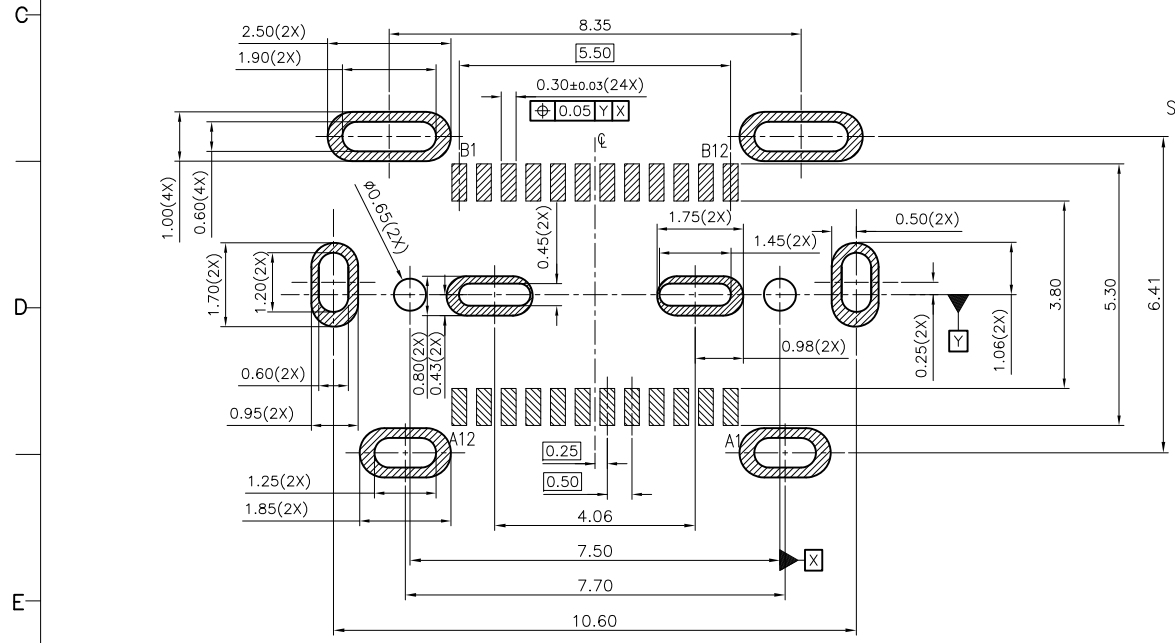


USB 2.0 RECOMMENDED PCB LAYOUT(TOP VIEW)
PCB THICKNESS 1.6±0.05mm



RECOMMENDED PCB LAYOUT(TOP VIEW)
PCB THICKNESS 1.6±0.05mm

Legend:
 USB TYPE C LAYOUT
 USB 2.0 LAYOUT



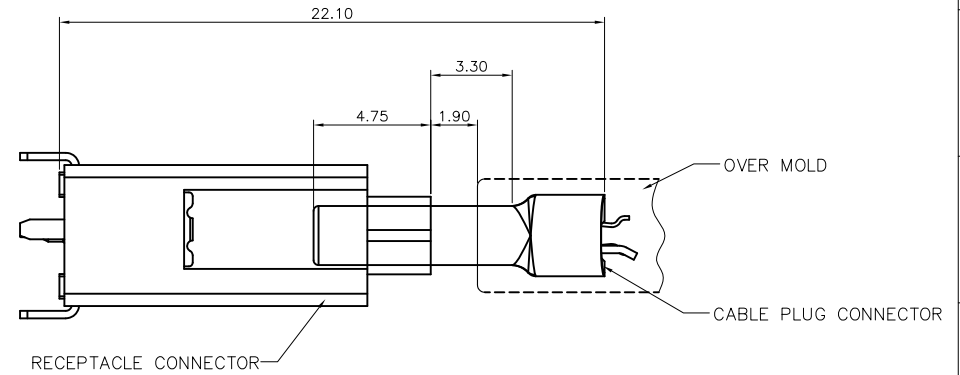
USB TYPE C RECOMMENDED PCB LAYOUT(TOP VIEW)
PCB THICKNESS 1.6±0.05mm

UNITS: mm	GENERAL TOLERANCE		APPROVED: Tommy Zhang	PART NO.: UB0124*-15001-1H
DATE: 10/10/17	X. ±0.20	X.* ±2.00*	CHECKED: Darren Lei	TITLE: CUSTOMER DRAWING FOR USB TYPE C VERTICAL TYPE
SCALE: 5:1	.X ±0.10	.X* ±1.00*	DRAWING: Carey Wang	DRAWING NO.: 820-0000-0500
SHEET: 3/5	MATERIAL: N/A	Q'TY N/A	Highstar Drapho ELECTRONICS TECHNOLOGY CO., LTD	
REV. B	FINISH: N/A			





Pin	Signal	Description	Mating Sequence	Description	Signal	Pin
A1	GND (20V 5A)	Ground return	First	Ground return	Power GND (5A)	B12
A2	SSTXp1	Positive half of first SuperSpeed TX differential pair	Second	Positive half of first SuperSpeed RX differential pair	SSRXp1	B11
A3	SSTXn1	Negative half of first SuperSpeed TX differential pair	Second	Negative half of first SuperSpeed RX differential pair	SSRXn1	B10
A4	VBUS	Bus Power	First	Bus Power	VBUS	B9
A5	CC1	Configuration Channel	Second	Sideband Use(SBU)	SBU2	B8
A6	Dp1	Positive half of the USB2.0 differential pair-Position 1	Second	Negative half of the USB2.0 differential pair-Position 2	Dn2	B7
A7	Dn1	Negative half of the USB2.0 differential pair-Position 1	Second	Positive half of the USB2.0 differential pair-Position 2	Dp2	B6
A8	SBU1	Sideband Use(SBU)	Second	Configuration Channel	CC2	B5
A9	VBUS	Bus Power	First	Bus Power	VBUS	B4
A10	SSRXn2	Negative half of second SuperSpeed RX differential pair	Second	Negative half of second SuperSpeed TX differential pair	SSTXn2	B3
A11	SSRXp2	Positive half of second SuperSpeed RX differential pair	Second	Positive half of second SuperSpeed TX differential pair	SSTXp2	B2
A12	GND	Ground return	First	Ground return	GND	B1

PIN ASSIGNMENTS



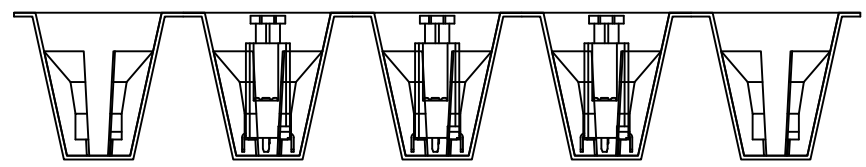
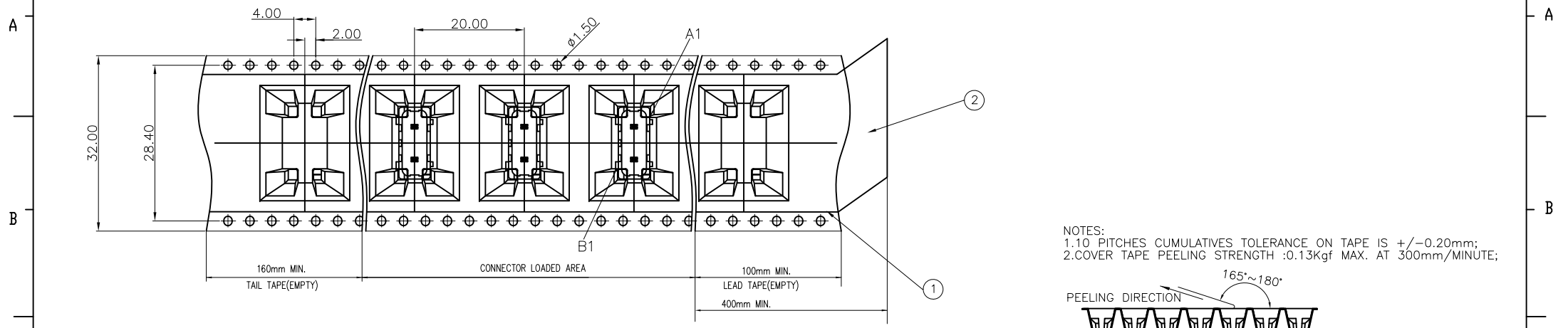
MATING CONDITION

UNITS: mm	GENERAL TOLERANCE		APPROVED: Tommy Zhang	PART NO.: UB0124*-15001-1H
DATE: 10/10/17	X. ±0.50	X.* ±5.00'	CHECKED: Darren Lei	TITLE: CUSTOMER DRAWING FOR USB TYPE C VERTICAL TYPE
SCALE: 5:1	.X ±0.30	.X* ±3.00'	DRAWING: Carey Wang	DRAWING NO.: 820-0000-0500
SHEET: 4/5	MATERIAL: N/A	Q'TY N/A	 Highstar Drapho ELECTRONICS TECHNOLOGY CO., LTD	
REV. B	FINISH: N/A			

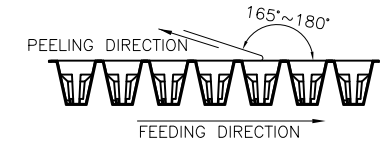


AUTO CAD GENERATED DRAWING, DON'T CHANGE BY HAND.

REV.	ECN. NO.	APPD.

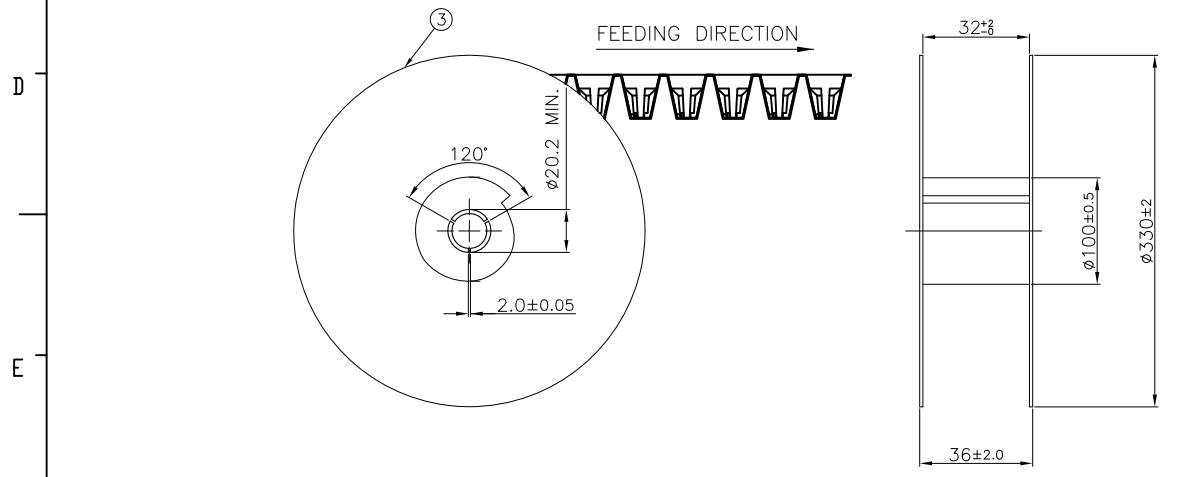


NOTES:
 1.10 PITCHES CUMULATIVE TOLERANCE ON TAPE IS $\pm 0.20\text{mm}$;
 2. COVER TAPE PEELING STRENGTH :0.13Kgf MAX. AT 300mm/MINUTE;

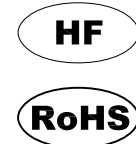


3. PACKAGING CAPACITY:

P/N	PCS/REEL	REEL/BOX	PCS/BOX
UB0124*-15001-1H	150	5	750



ITEM	DESCRIPTION	MATERIAL
③	REEL	POLYSTYRENE
②	COVER TAPE	POLYESTER
①	CARRIER TAPE	POLYSTYRENE



UNITS: mm	GENERAL TOLERANCE	APPROVED: Tommy Zhang	PART NO. UB0124*-15001-1H
DATE: 10/10/17	X. : ± 0.50 .X : ± 0.30 .XX : ± 0.20 .XXX	X.* : $\pm 5^{\circ}$.X* : $\pm 3^{\circ}$.XX* : $\pm 2^{\circ}$.XXX*	TITLE: CUSTOMER DRAWING FOR USB TYPE C VERTICAL TYPE
SCALE: N/A		CHECKED: Darren Lei	DRAWING NO.: 820-0000-0500
SHEET: 5/5	MATERIAL: N/A	DRAWING: Carey Wang	Highstar
REV.: B	FINISH: N/A	Q'TY N/A	Drapho ELECTRONICS TECHNOLOGY CO., LTD