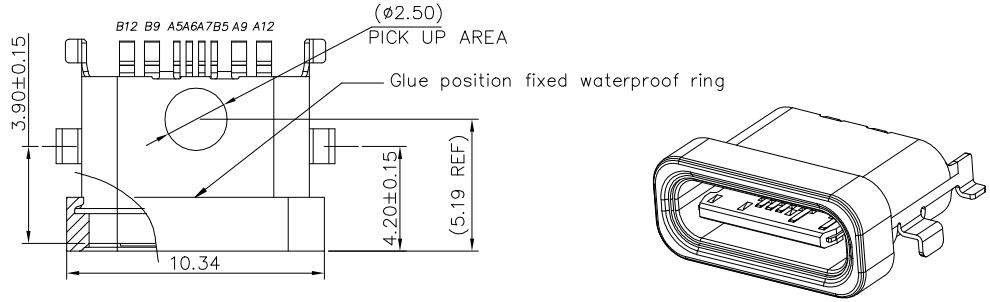
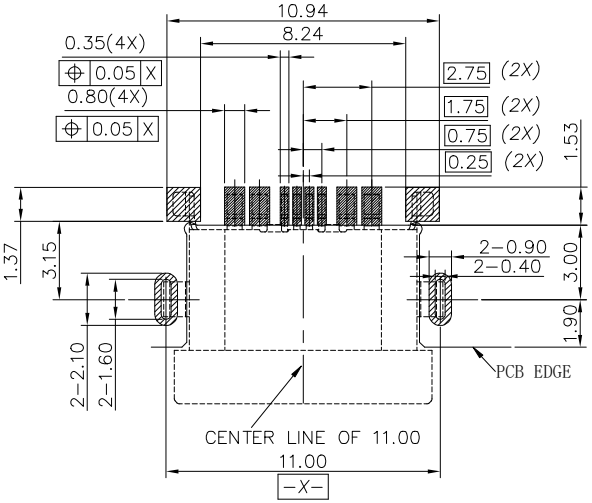
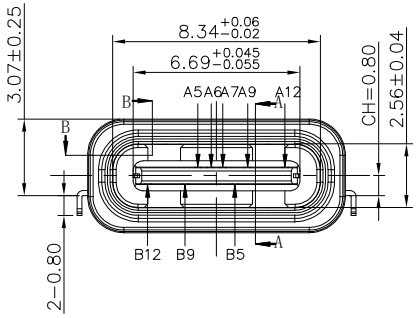
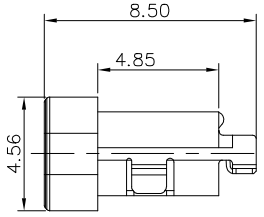


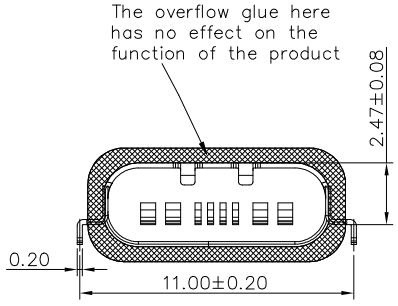
SECTION: B–B

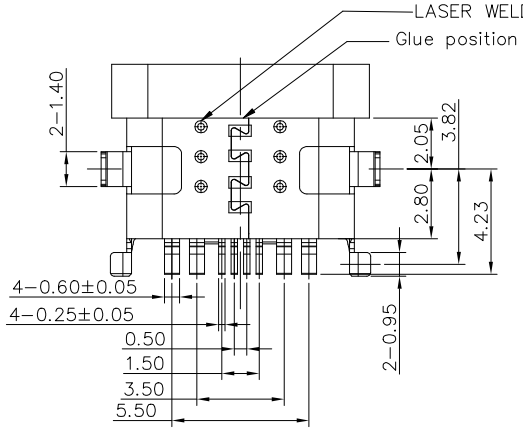


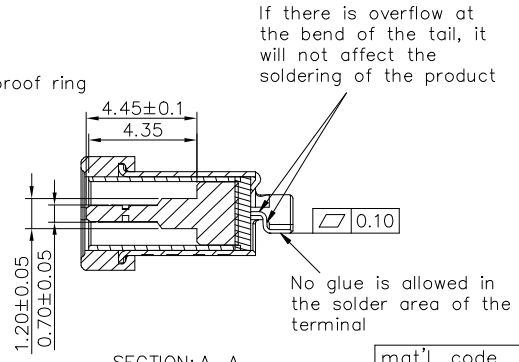
RECOMMENDED PCB LAYOUT
DEFAULT TOLERANCE: ±0.05











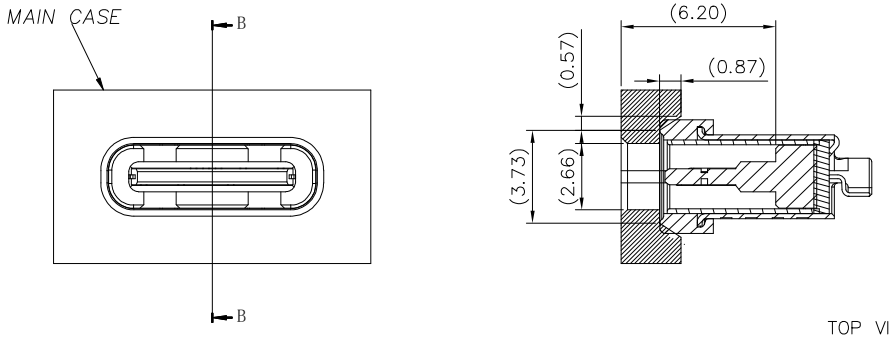
SECTION: A–A

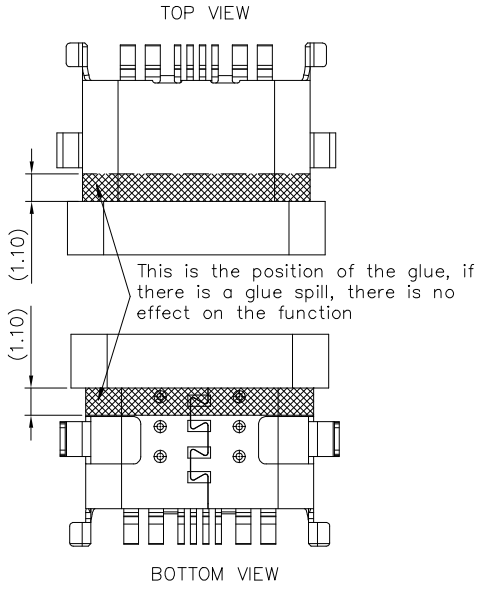
mat'l. code				surface ISO 1302		tolerance ISO 406 ISO		projection 1101		product family USB	
ltr	ecn no	dr	date	tolerances unless otherwise				specified		title	
A	–	TY	2025/06/27	angles	linear	.X±.35		mm		USB TYPE C 8P SMT+SINK TYPE	
				0°±2°		.XX±.25					
						.XXX±.15		scale 1:1			
				dr	Tian-Yu Tang	2024/12/23				dwg no 10178589	sheet 1 of 2 size A3
				engr	Tian-Yu Tang	2024/12/23		Amphenol FCi			
				chr	L-Q Lei	2024/12/23					
				appd	Tim Yao	2024/12/23				type Product Customer Drawing	
sheet index	revision sheet	A 1									

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RECOMMENDED OPENING DIMENSIONS
OF CASE MATING AREA WITH SEALING RING





USB TYPE-C PIN ASSIGNMENTS

PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
A1		B12	GND
A2		B11	
A3		B10	
A4		B9	VBUS
A5	CC1	B8	
A6	D+	B7	
A7	D−	B6	
A8		B5	CC2
A9	VBUS	B4	
A10		B3	
A11		B2	
A12	GND	B1	

NOTE:
1.MATERIAL SPECIFICATION:
1.HOUSING: HIGH TEMPERATURE RESISTANT PLASTIC,UL94 V-0.
2.TERMINAL: COPPER ALLOY
3.MID PLATE: STAINLESS STEEL
4.INNER SHELL: STAINLESS STEEL
5.OUT SHELL: STAINLESS STEEL
6.GLUE: EPOXY
7.O-RING: GLUE
2.PLATING SPECIFICATION:
2-1.TERMINAL:
PLATING NICKEL 50u" MIN. OVER ALL.
Tin 50u" MIN PLATED ON SOLDERING AREA.
(GOLD PLATING ON CONATCT AREA THICKNESS FOLLOWS THE P/N)
2-2.OUT SHELL:
PLATING NICKEL 50u" MIN. OVER ALL.
2-3.INNER SHELL &MID PLATE:
CLEAR ONLY
3.MECHANICAL PERFORMANCE,
3-1.INSERTION FORCE: 0.5~2.0kgf.
3-2.REMOVAL FORCE: 0.8kgf~2.0kgf.
3-3.DURABILITY: 10000 CYCLES.
4.ELECTRICAL PERFORMANCE,
4-1. VOLTAGE RATING: 5 V DC/AC (RMS. max)
CURRENT RATING: 3 AMPS. FOR TOTAL VBUS/GND PINS;
1.25AMPS FOR CC PIN,0.25 AMPS. FOR ALL OTHER CONTACT.
4-2. LLCR:
VBUS & GND PINS AND OTHER PINS: 40mΩ/PIN MAX.
LLCR MAX. CHANGE OF ALL PINS: 10mΩ
4-3.INSULATION RESISTANCE: 100MΩ MIN
4-4.DIELECTRIC WITHSTAND VOLTAGE,AC 100V FOR 1 MINUTE.
5. ENVIRONMENTAL PERFORMANCE:
OPERATING TEMPERATURE: -25℃~+85℃.
6.IR REFLOW:
THE PEAK TEMPERATURE ON THE BOARD SHALL
BE MAINTAINED FOR 10 SECONDS AT 260℃.
7.WATERPROOF: IPX5
8.PRODUCT PART NUMBER DESCRIPTION
10178589 - 0 0 0 X X LF
LEAD FREE
PACKING TYPE:
1: TAPE/REEL
CONTACT AREA PLATING
1: GOLD FLASH

mat'l. code	surface ISO 1302	tolerance ISO 406 ISO	projection 1101
ltr / ecn no / dr / date	tolerances unless otherwise specified		
A	angles 0°±2°	linear .X±.35 / .XX±.25 / .XXX±.15	mm, scale 1:1
dr	Tian-Yu Tang	2024/12/23	
engr	Tian-Yu Tang	2024/12/23	
chr	L-Q Lei	2024/12/23	
appd	Tim Yao	2024/12/23	
sheet / revision	A		
index / sheet	2		

product family: USB
title: USB TYPE C 8P SMT+SINK TYPE
dwg no: 10178589
sheet 2 of 2
size: A3
type: Product Customer Drawing

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