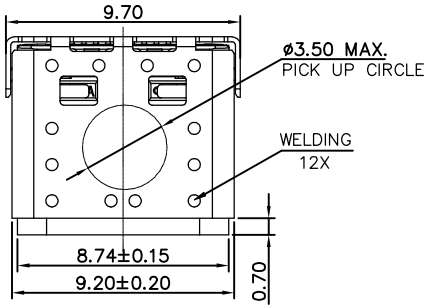
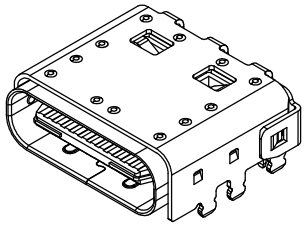
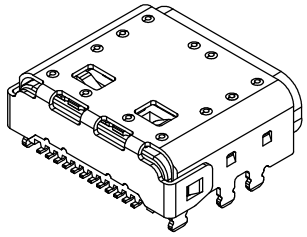
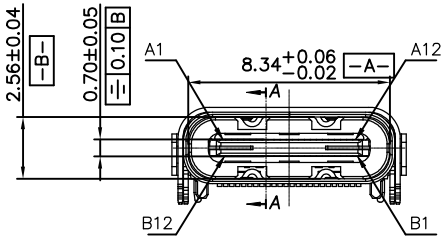
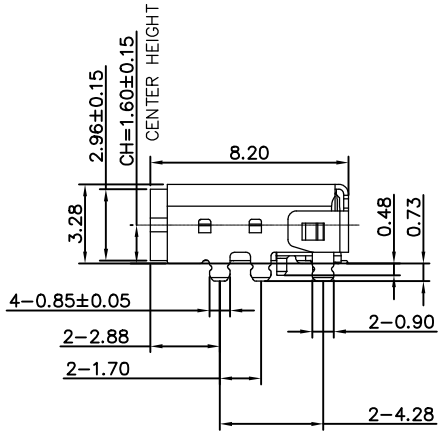
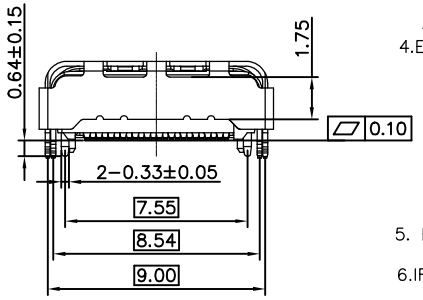




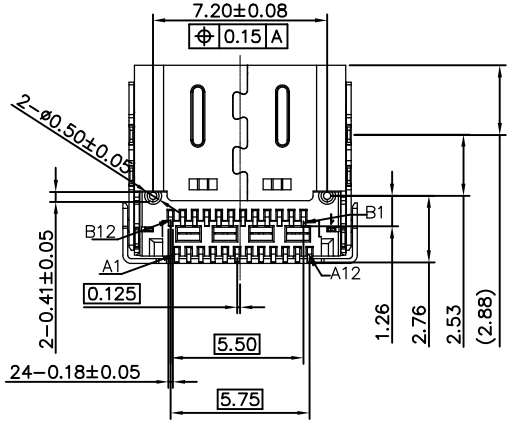


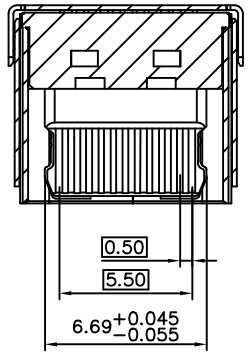






NOTE:
1.MATERIAL SPECIFICATION:
1.HOUSING: HIGH TEMPERATURE RESISTANT PLASTIC,UL94 V-0
2.TERMINAL: COPPER ALLOY
3.MID PLATE: STAINLESS STEEL
4.OUT SHELL: STAINLESS STEEL
5.INNER SHELL: STAINLESS STEEL
2.PLATING SPECIFICATION:
2-1.CONTACTS:
Ni 50u" MIN. UNDER PLATED OVER ALL.
G/F PLATED ON CONTACT AREA
PLATING GOLD 1u" ON SOLDER AREA
2-2.OUT SHELL&INNER SHELL:
Ni 50u" MIN. UNDER PLATED OVER ALL.
2-3.MID PLATE:
Ni 50u" MIN. UNDER PLATED OVER ALL.
3.MECHANICAL PERFORMANCE,
3-1.INSERTION FORCE: 0.5~2.0kgf.
3-2.REMOVAL FORCE: 0.8kgf~2.0kgf.(INTITIAL)
0.6kgf~2.0kgf.(AFTER DURABILITY TEST)
3-3.DURABILITY: 10000 CYCLES.
4.ELECTRICAL PERFORMANCE,
4-1. VOLTAGE RATING: 20 V DC/AC (RMS. max)
CURRENT RATING: 5 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: -55°C~+85°C.
6.IR REFLOW:
THE PEAK TEMPERATURE ON THE BOARD SHALL
BE MAINTAINED FOR 10 SECONDS AT 260°C.
7.PRODUCT PART NUMBER DESCRIPTION:
10198101 - 0 0 0 X X LF
LEAD FREE
PACKING TYPE:
1: TAPE/REEL
CONTACT AREA PLATING
1: GOLD FLASH

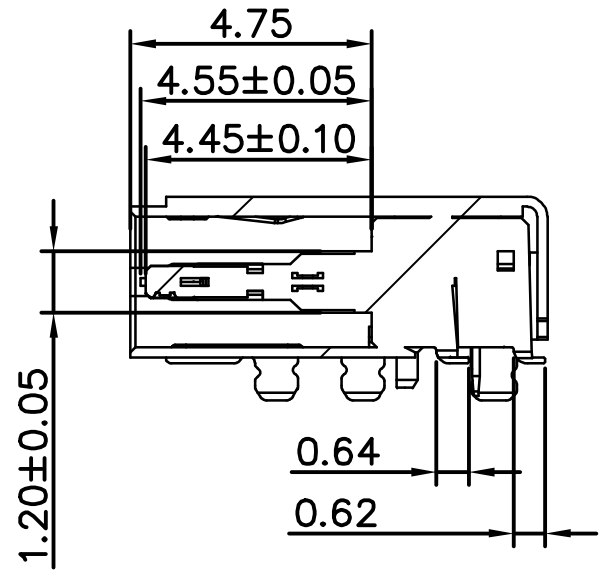




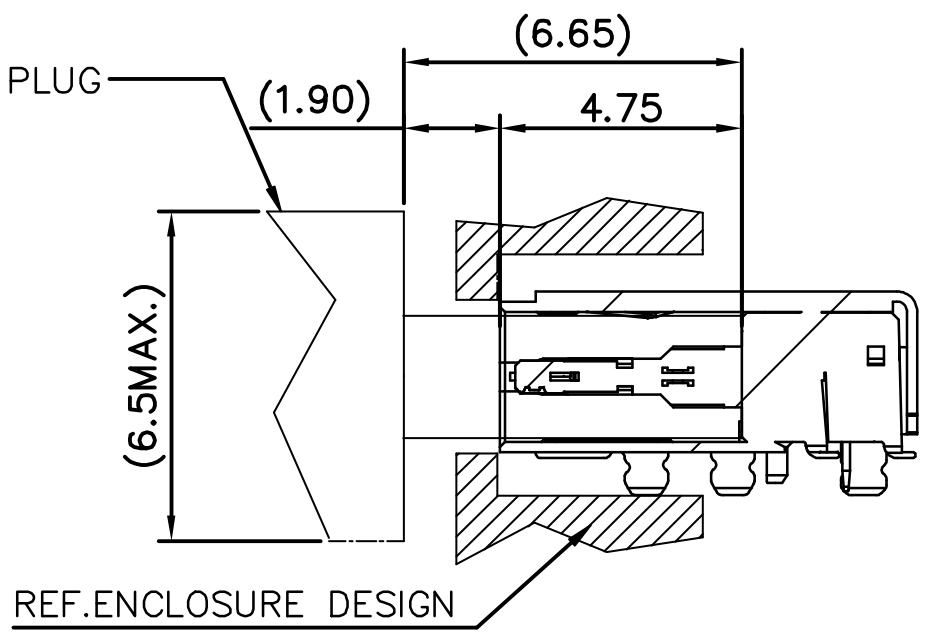
mat'l. code					surface ISO 1302		tolerance ISO 406 ISO 1101			projection		product family					
ltr	ecn no	dr	date		tolerances unless otherwise specified							HPL 511					
A	-	TY.Tang	2026/03/30		angles	linear	0.X±0.35			mm		title					
B	ELX-N-297791	TY.Tang	2026/07/16		0°±x'		0.XX±0.25					USB TYPE C					
							0.XXX±0.15			scale 1:1		24PIN SMT TYPE					
					dr	TY.Tang	2026/07/16					dwg no		sheet 1 of 2		size	
					engr	TY.Tang	2026/07/16			Amphenol FCi		10198101				A3	
					chr	LQ LEI	2026/07/16					type Product Customer Drawing					
					appd	TIM YAO	2026/07/16										
sheet index	revision	B															
	sheet	1															

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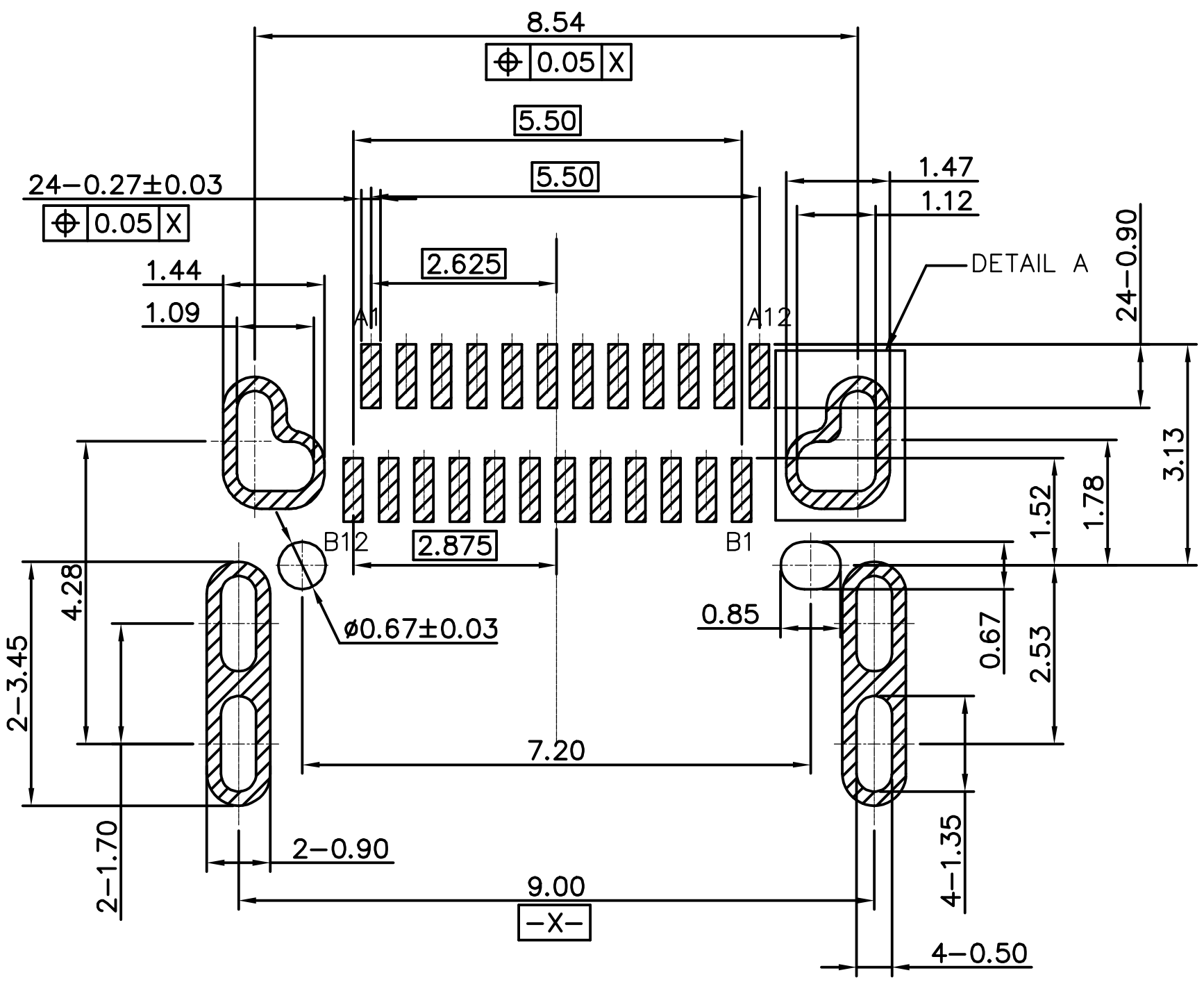
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SECTION: A–A



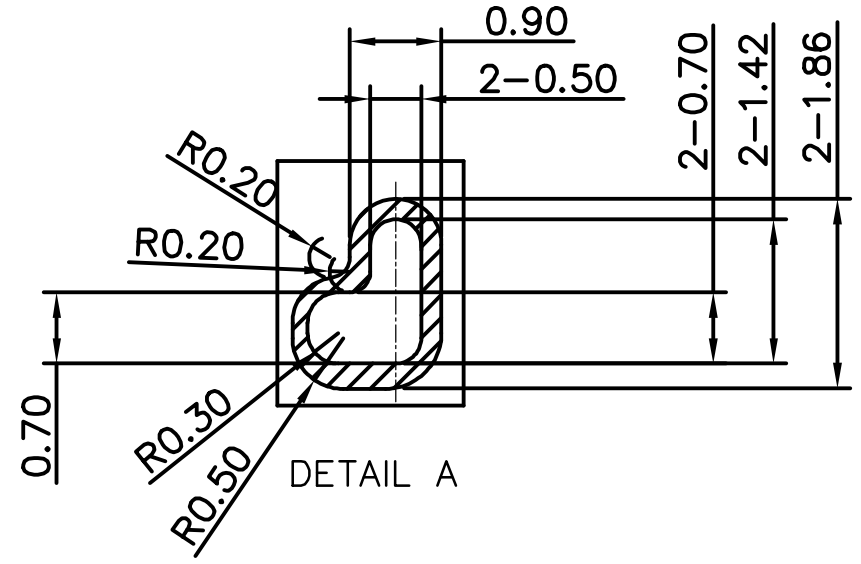
MATED CONDITION (REF.)



SCALE 2:1

RECOMMENDED PCB LAYOUT(TOP VIEW)

Thickness 1.0mm (TOLERANCE=±0.05mm)



USB TYPE–C PIN ASSIGNMENTS

A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
GND	TXp1	TXn1	VBUS	CC1	D+	D–	SBU1	VBUS	RXn2	RXp2	GND
GND	RXp1	RXn1	VBUS	SBU2	D–	D+	CC2	VBUS	TXn2	TXp2	GND
B12	B11	B10	B9	B8	B7	B6	B5	B4	B3	B2	B1

mat'l. code	surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family HPL 511
ltr: B / ecn no / dr / date	tolerances unless otherwise specified			
	angles 0°±x°	linear 0.X±0.35, 0.XX±0.25, 0.XXX±0.15	mm, scale 1:1	title USB TYPE C 24PIN SMT TYPE
	dr TY.Tang 2026/07/16			dwg no 10198101, sheet2 of 2, size A3
	engr TY.Tang 2026/07/16		Amphenol FCi	
	chr LQ LEI 2026/07/16			
	appd TIM YAO 2026/07/16			type Product Customer Drawing
sheet revision B				
index sheet 2				

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