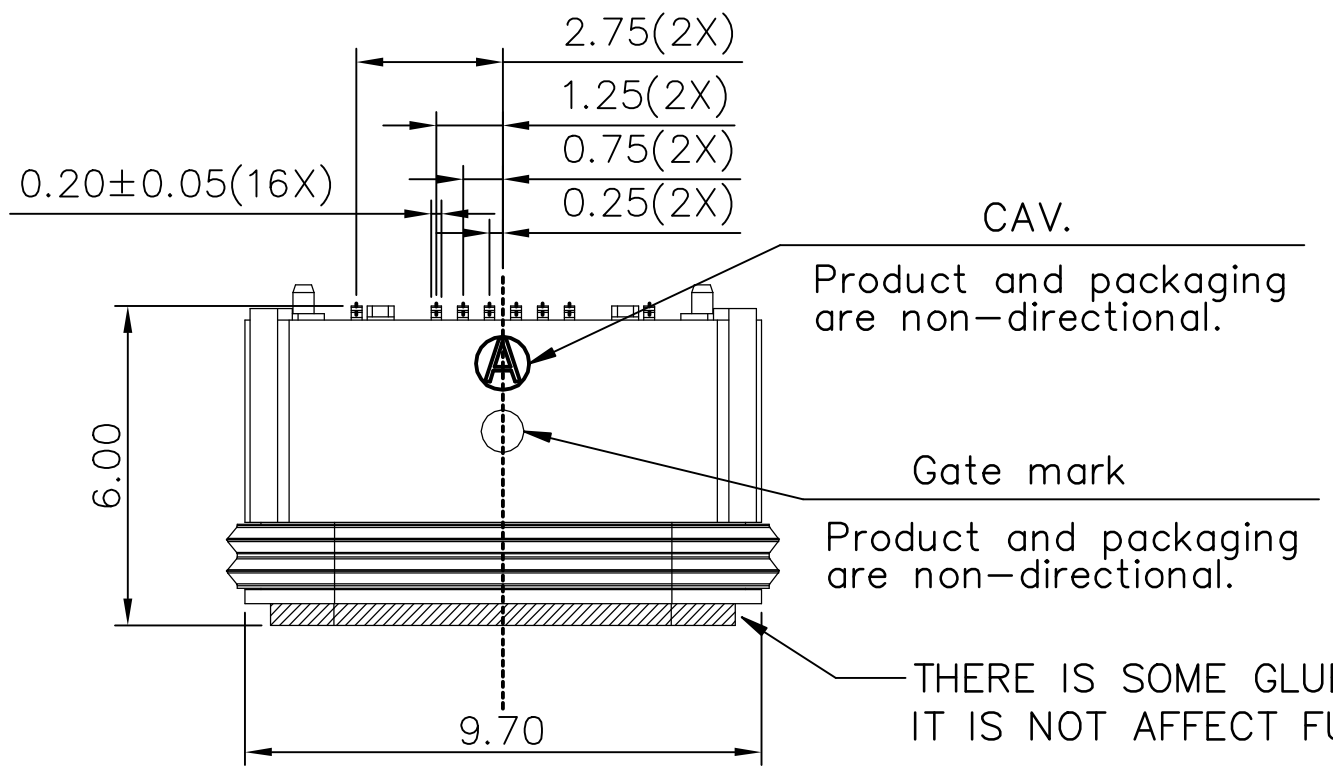
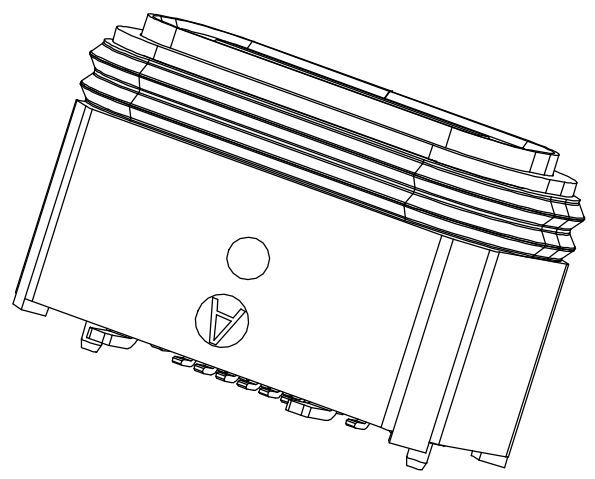
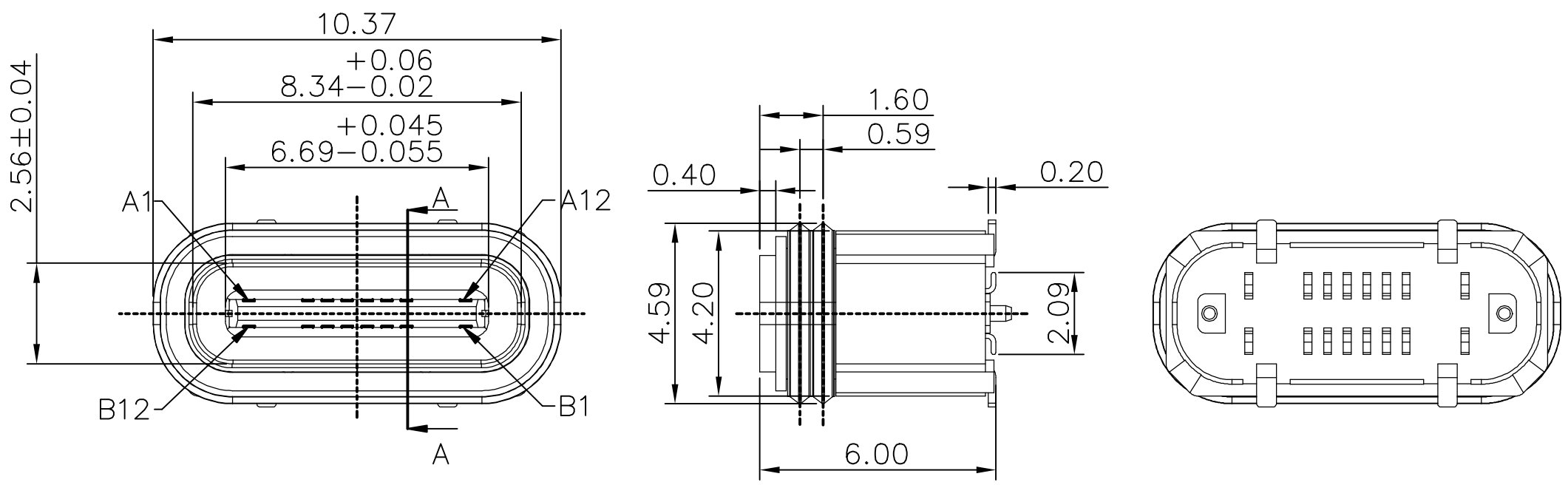
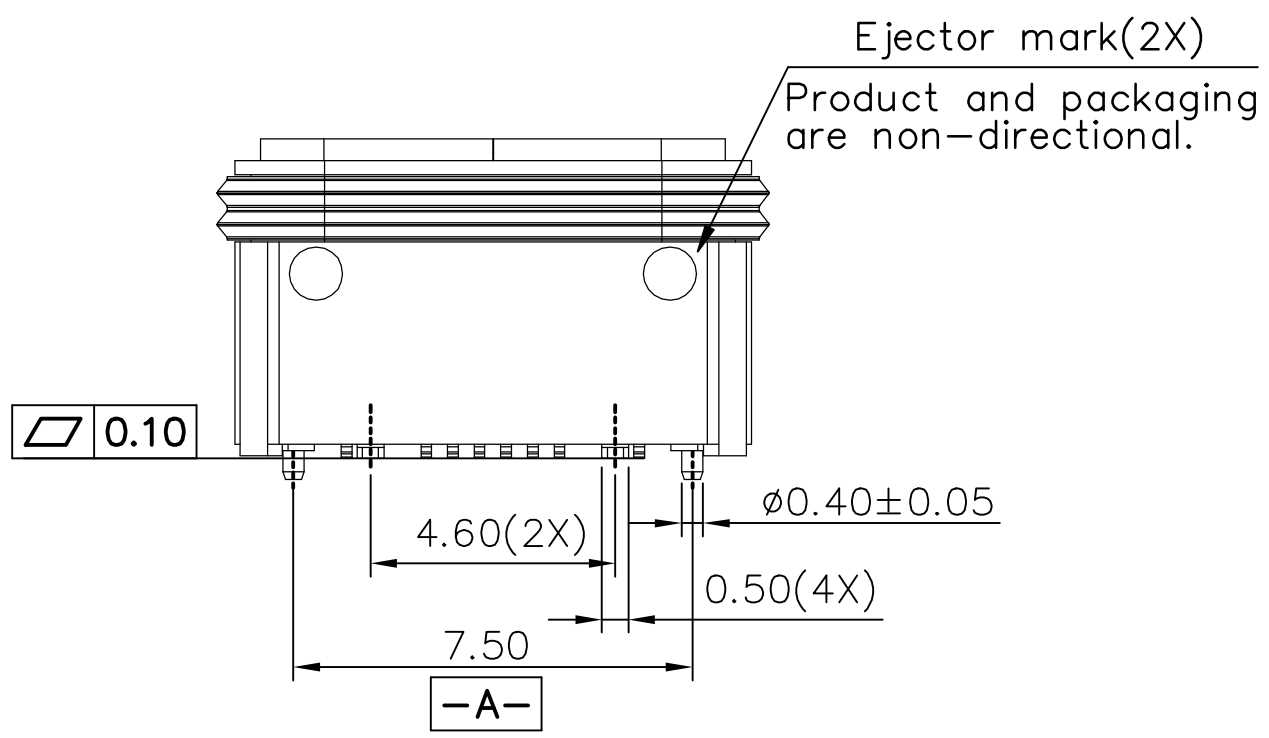
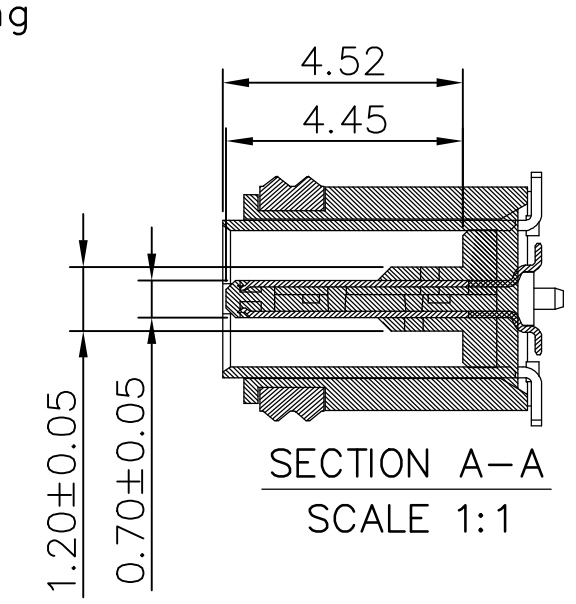










SECTION A−A
SCALE 1:1

NOTE:

1.MATERIAL SPECIFICATION:
 1.HOUSING: HIGH TEMPERATURE RESISTANT PLASTIC
 2.TERMINAL: COPPER ALLOY
 3.MID PLATE: STAINLESS STEEL
 4.FRONT SHELL: STAINLESS STEEL
 5.O−RING: SILICA
 6.GLUE: EPOXY,BLACK

2.PLATING SPECIFICATION:
 2−1.TERMINAL:
  Ni 50u" MIN. UNDER PLATED OVER ALL.
  Au G/F PLATED ON THE CONTACT AREA
  Au G/F PLATED ON THE SOLDER AREA
 2−2. SHELL:
  Ni 50u" MIN. UNDER PLATED OVER ALL.
 2−3.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: 5 AMPS. FOR TOTAL VBUS/GND PINS;
 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°C~+85°C.

6.IR REFLOW:
 THE PEAK TEMPERATURE ON THE BOARD SHALL
 BE MAINTAINED FOR 10 SECONDS AT 260°C.

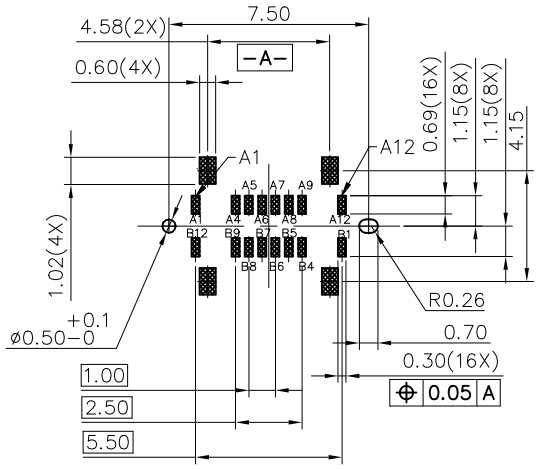
7.WATERPROOF: IPX5

8.PRODUCT PART NUMBER DESCRIPTION:
 10198097 − 0 0 0 X X LF
 LEAD FREE
 PACKING TYPE:
 1: TAPE/REEL
 CONTACT AREA PLATING
 1: GOLD FLASH

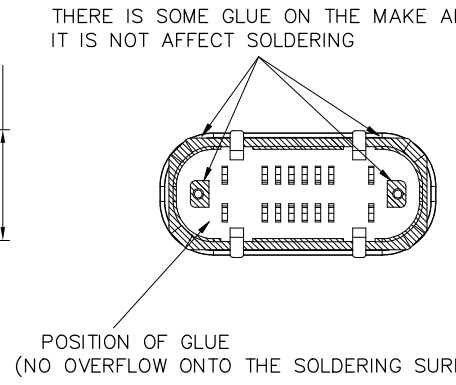
mat'l. code	surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family USB
ltr / ecn no / dr / date	tolerances unless otherwise specified			
A / ELX-N-296697 / TY Tang / 2026/07/09	angles 0°±2°	linear 0.X±0.35, 0.XX±0.25, 0.XXX±0.15	mm, scale 1:1	title USB TYPE C VERTICAL 16P SMT TYPE
	dr Tian−Yu Tang 2026/07/09		Amphenol FCi	dwg no 10198097, sheet 1 of 2, size A3
	engr Tian−Yu Tang 2026/07/09			
	chr Li−Qing Lei 2026/07/09			
	appd Tim Yao 2026/07/09			type Product Customer Drawing
sheet index	revision sheet			

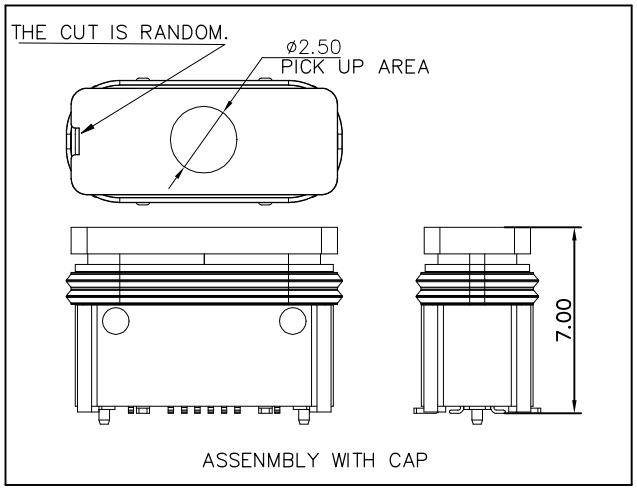
Amphenol FCi
© 2016 AFCI

Downloaded from Arrow.com.



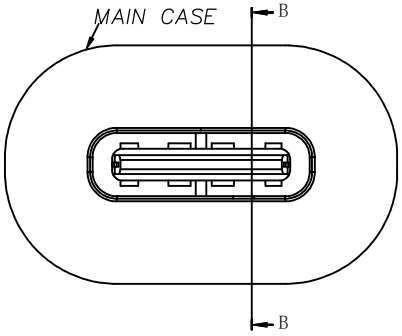
RECOMMENDED PCB LAYOUT(TOP VIEW)
THICKNESS 0.8±0.10MM;DEFAULT TOLERANCE:±0.05

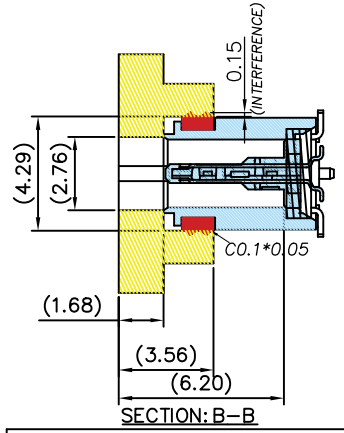




USB TYPE-C PIN ASSIGNMENTS

PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
A1	GND	B12	GND
A4	VBUS	B9	VBUS
A5	CC1	B8	SBU2
A6	Dp1	B7	Dn2
A7	Dn1	B6	Dp2
A8	SBU1	B5	CC2
A9	VBUS	B4	VBUS
A12	GND	B1	GND





SECTION: B-B

RECOMMENDED OPENING DIMENSIONS
OF CASE MATING AREA WITH SEALING RING

mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family
ltr	ecn no	dr	date	tolerances unless otherwise specified			USB
A	ELX-N-296697	TY Tang	2026/07/09	angles 0°±2°	linear 0.X±0.35, 0.XX±0.25, 0.XXX±0.15	mm, scale 1:1	title: USB TYPE C VERTICAL 16P SMT TYPE
				dr Tian-Yu Tang 2026/07/09			dwg no 10198097 sheet 2 of 2 size A3
				engr Tian-Yu Tang 2026/07/09		Amphenol FCI	
				chr Li-Qing Lei 2026/07/09			type Product Customer Drawing
				appd Tim Yao 2026/07/09			

sheet index | revision sheet

© 2016 AFCI

Downloaded from Arrow.com.