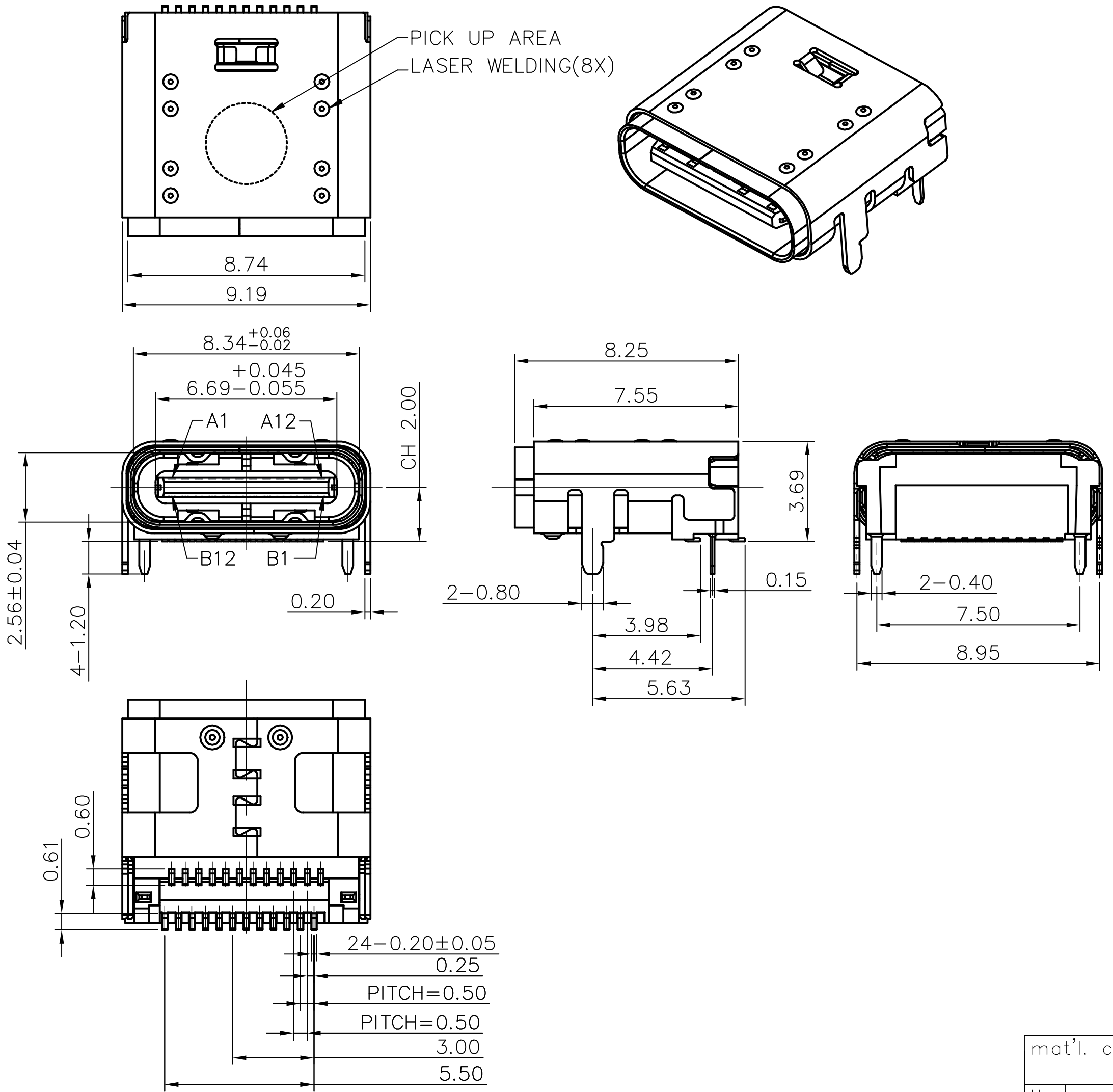


NOTE:

1.MATERIAL SPECIFICATION:
 1.HOUSING: HIGH TEMPERATURE RESISTANT PLASTIC(LCP),UL94 V-0.
 2.CONTACTS: COPPER ALLOY
 3.MID PLATE: STAINLESS STEEL
 4.INNER SHELL&OUT SHELL: STAINLESS STEEL
 5.EMI PLATE: STAINLESS STEEL

2.PLATING SPECIFICATION:
 2-1.CONTACTS:
  Ni 50u" MIN. UNDER PLATED OVER ALL.
  G/F PLATED ON THE FUNCTIONAL AREA OF CONTACT.
  G/F PLATING OF THE 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.
  Sn 80u"MIN. PLATED OVER ALL
 2-4.EMI 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.
 3-3.DURABILITY: 10000 CYCLES.

4.ELECTRICAL PERFORMANCE,
 4-1. CURRENT RATING: 5.0A
   VOLTAGE RATING: 5.0V
 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.PRODUCT PART NUMBER DESCRIPTION:
 10198099 - 0 0 0 X X LF
  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 24P SMT TYPE
				dr	Tian-Yu Tang	2026/07/09	dwg no 10198099; sheet 1 of 2; size A3
				engr	Tian-Yu Tang	2026/07/09	
				chr	Li-Qing Lei	2026/07/09	Amphenol FCi
				appd	Tim Yao	2026/07/09	type Product Customer Drawing
sheet index	revision sheet						

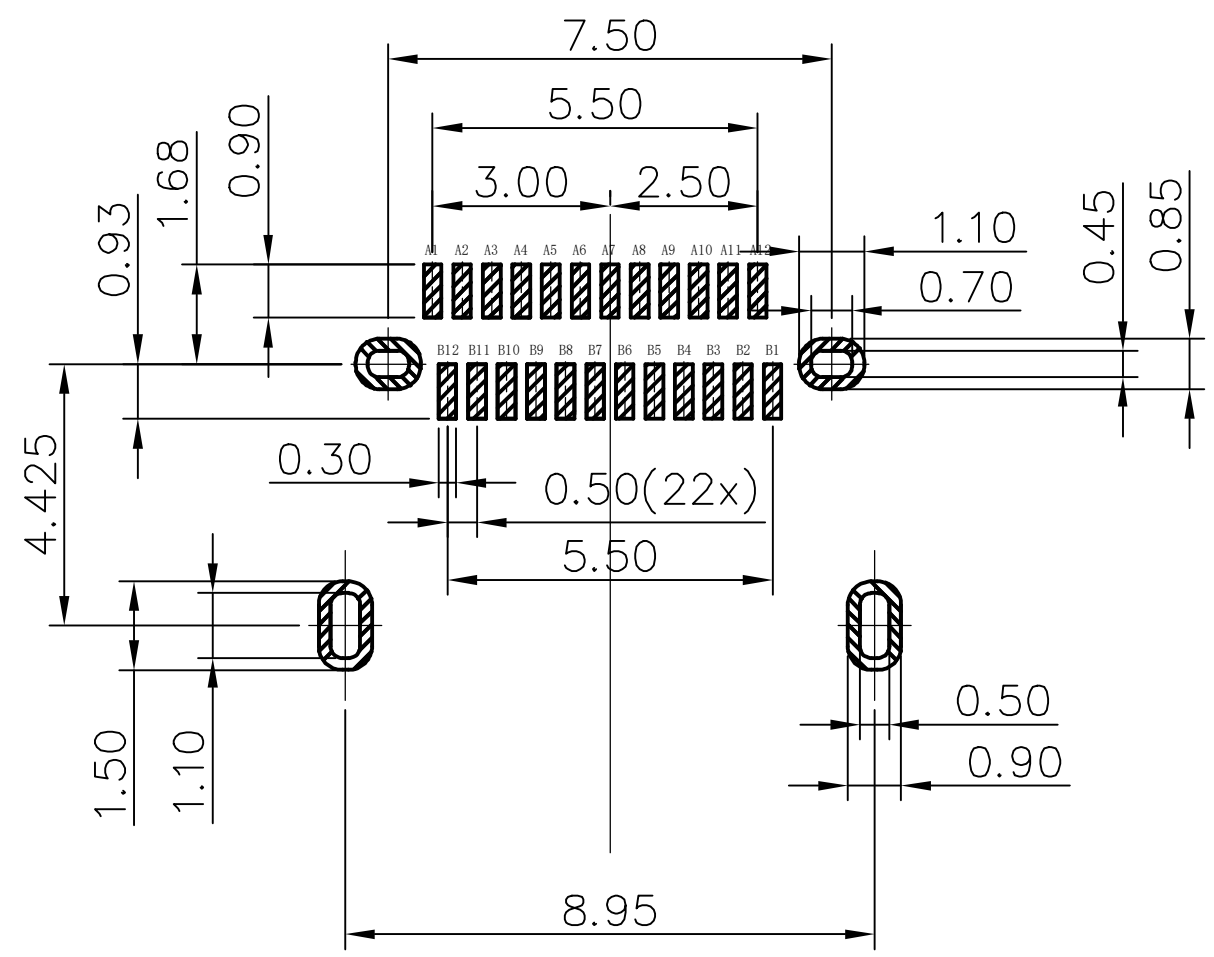
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USB TYPE—C PIN ASSIGNMENTS

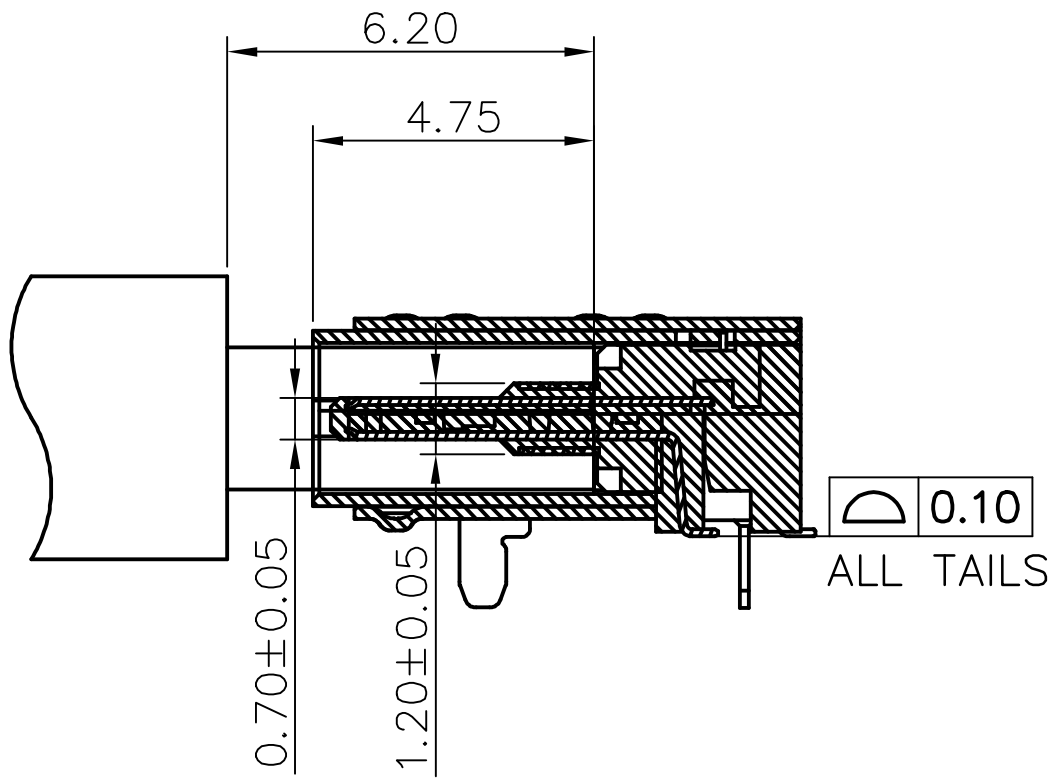
PIN NUMBER	SIGNAL NAME
A1	GND
A2	TXp1
A3	TXn1
A4	VBUS
A5	CC1
A6	Dp1
A7	Dn1
A8	SBU1
A9	VBUS
A10	RXn2
A11	RXp2
A12	GND

PIN NUMBER	SIGNAL NAME
B12	GND
B11	RXp1
B10	RXn1
B9	VBUS
B8	SBU2
B7	Dn2
B6	Dp2
B5	CC2
B4	VBUS
B3	TXn2
B2	TXp2
B1	GND



RECOMMENDED PCB LAYOUT(TOP VIEW)

THICKNESS 1.00MM; DEFAULT TOLERANCE: ±0.05



ASSEMBLY WITH PLUG

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Amphenol FCi

mat'l. code	surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family: USB
ltr: A; ecn no; dr; date	tolerances unless otherwise specified; angles 0°±2°; linear 0.X±0.35, 0.XX±0.25, 0.XXX±0.15		mm; scale 1:1	title: USB TYPE C 24P SMT TYPE
	dr: Tian—Yu Tang 2026/07/09		Amphenol FCi	dwg no: 10198099; sheet2 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			

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