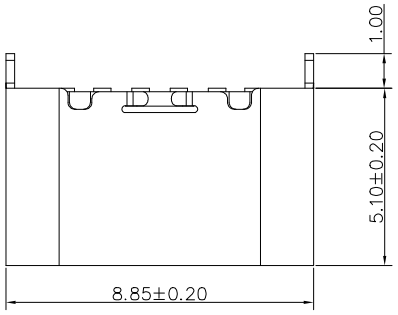


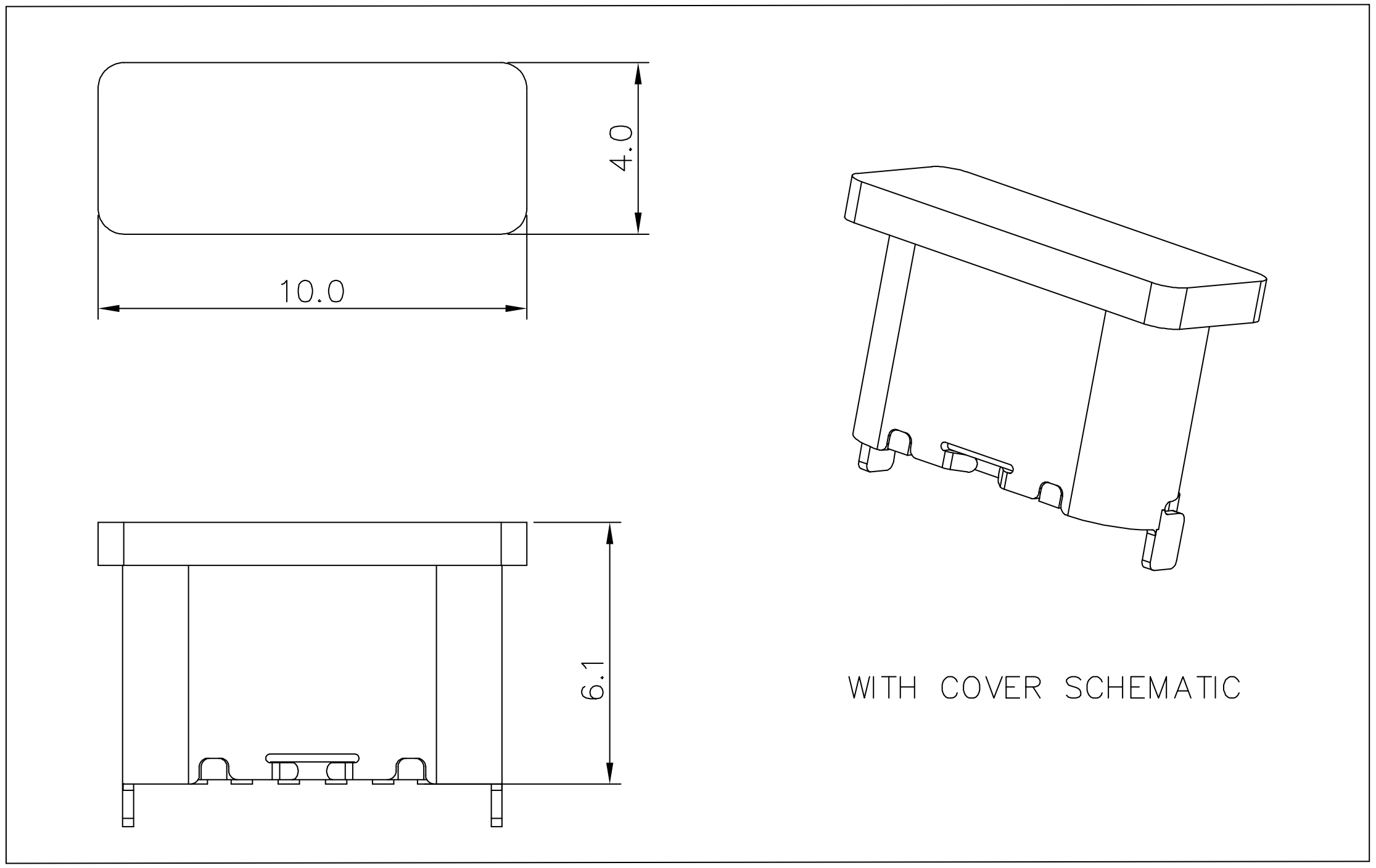


NOTE:
1.MATERIAL SPECIFICATION:
1.HOUSING: HIGH TEMPERATURE RESISTANT PLASTIC,UL94 V-0.
2.TERMINAL: COPPER ALLOY
3.MIDDLE PLATE: STAINLESS STEEL
4.OUT SHELL: STAINLESS STEEL
2.PLATING SPECIFICATION:
2-1.TERMINAL:
PLATING NiCKEL 50u" MIN. UNDER OVER ALL.
G/F ON THE SOLDERING AREA AND THE CONTACT AREA OVER NICKEL
2-2.MIDDLE PLATE
CLEAN
2-3.OUT SHELL:
30u Ni 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. VOLTAGE RATING: 5V DC/AC
CURRENT RATING: 3A
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:
10178591 - 0 0 0 X X LF
LF: LEAD FREE
X: PACKING TYPE: 1: TAPE/REEL
X: CONTACT AREA PLATING 1: GOLD FLASH

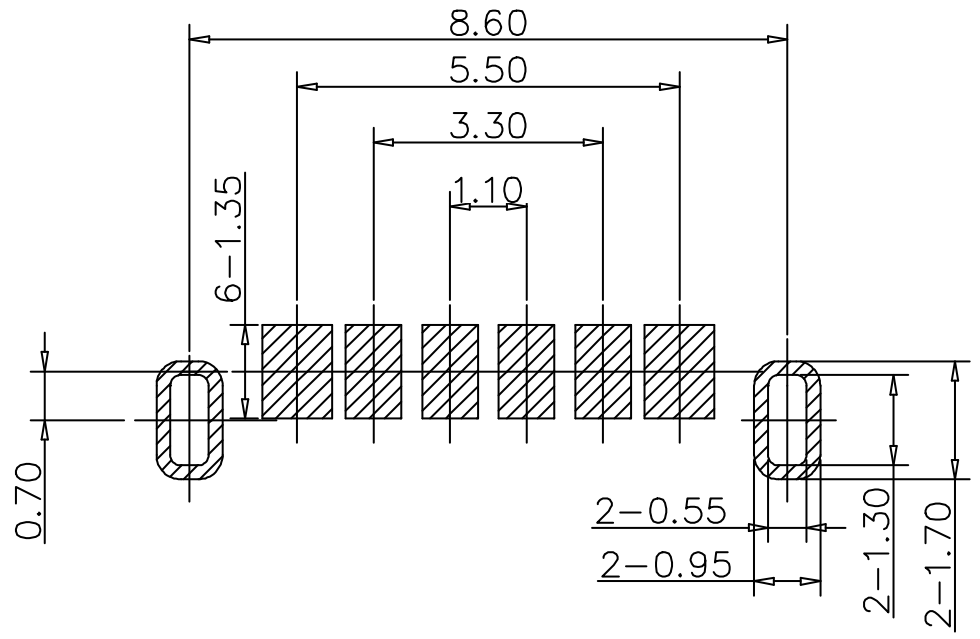
mat'l. code				surface ISO 1302		tolerance ISO 406 ISO		projection 1101	product family USB		
ltr	ecn no	dr	date	tolerances unless otherwise				specified	title		
A	-	TY	2025/06/27	angles	linear	.X±.35		mm	USB TYPE C VERTICAL 6P SMT TYPE		
				0°±2°		.XX±.25					
						.XXX±.15		scale 1:1			
				dr	Tian-Yu Tang	2024/02/26			dwg no 10178591	sheet 1 of 2	size A3
				engr	Tian-Yu Tang	2024/02/26		Amphenol FCi			
				chr	L-Q Lei	2024/02/26					
				appd	Tim Yao	2024/02/26			type Product Customer Drawing		
sheet index	revision sheet	A 1									

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WITH COVER SCHEMATIC



RECOMMEND P.C.B LAYOUT(COMPONENT SIDE)

TOLERANCE FOR PCB LAYOUT IS ±0.05

PIN ASSIGNMENTS

PIN	SIGNAL NAME	PIN	SIGNAL NAME
A5	CC1	B12	GND
A9	VBUS	B9	VBUS
A12	GND	B5	CC2

mat'l. code	surface	tolerance	projection	product family
	ISO 1302 √	ISO 406 ISO 1101		USB

tolerances unless otherwise specified

angles	linear	
0°±2°	.X±.35	mm
	.XX±.25	
	.XXX±.15	scale 1:1

ltr	ecn no	dr	date
A			

	name	date
dr	Tian-Yu Tang	2024/02/26
engr	Tian-Yu Tang	2024/02/26
chr	L-Q Lei	2024/02/26
appd	Tim Yao	2024/02/26

title: USB TYPE C VERTICAL 6P SMT TYPE

dwg no: 10178591 | sheet2 of 2 | size A3

type: Product Customer Drawing

sheet	revision	A
index	sheet	2

Amphenol FCi

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