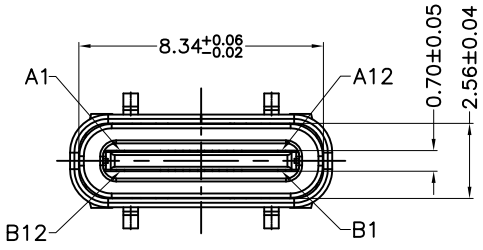
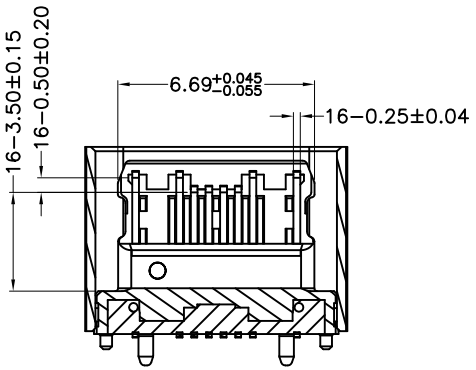
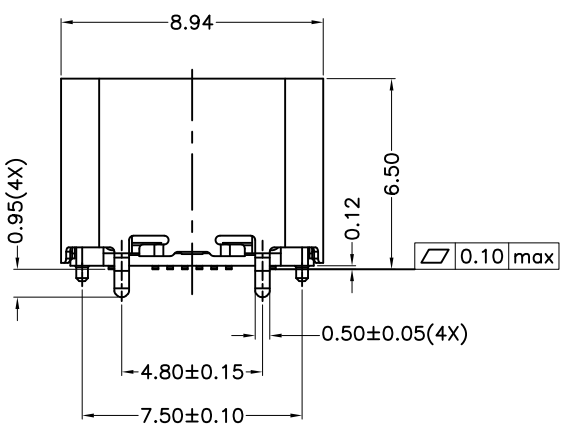
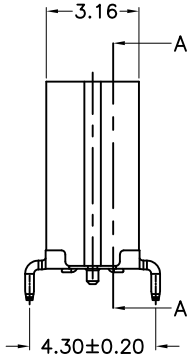
THE PART MEETS TECONN "GP001" COMPLIANCE NEW REV.

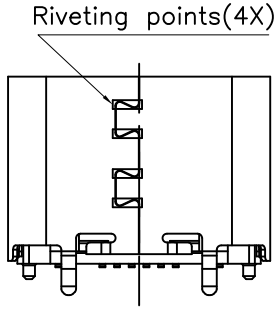


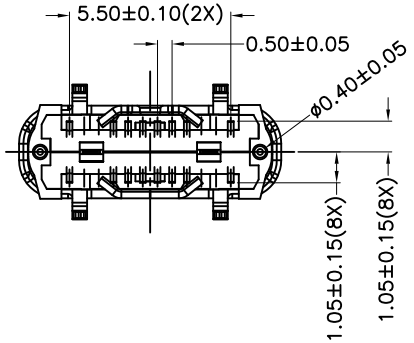


SECTION A−A Ⓑ









A4Q1605−A−XX−R

Color:Black

Mating Area plating
01: Au 1u"Min.
03: Au 3u"Min.
05: Au 5u"Min.
10: Au 10u"Min.
15: Au 15u"Min.
30: Au 30u"Min.

NOTE:

1.MATERIAL SPECIFICATION:
1−1.HOUSING:HIGH TEMPERATURE RESISTANT PLASTIC(LCP), UL94 V−0. COLOR:BLACK.
1−2.CONTACTS:COPPER ALLOY(C18150)T=0.12mm
1−3.MID PLATE: STAINLESS STEEL(SUS301)T=0.15mm
1−4.SHELL: STAINLESS STEEL(SUS304)T=0.30mm

2.PLATING SPECIFICATION:
2−1.CONTACTS:
Ni 50u" MIN. UNDER PLATED OVER ALL.
Au PLATED ON THE MATING AREA OF CONTACT.
(GOLD PLATING THICKNESS FOLLOW THE P/N)
GOLD FLASH PLATED ON THE SOLDER AREA.
GOLD FLASH PLATING THICKNESS IS NOT REQUIRED.
2−2.SHELL:
Ni 30u" MIN. UNDER PLATED OVER ALL.
2−3.MID PLATE:
CLEAR ONLY

3.MECHANICAL PERFORMANCE,
3−1.INSERTION FORCE: 0.5~2.0kgf.
3−2.EXTRACTION FORCE: 0.8kgf~2.0kgf.
0.6kgf~2.0kgf. AFTER DURABILITY TEST.
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.
SHIELD: 50mΩ/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.

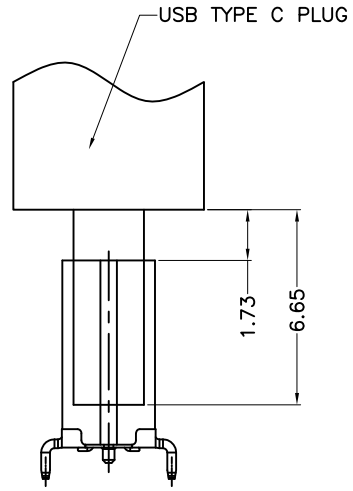
7. ROHS and HF COMPLIANT.

Item	Title	Material	Dispose	Remark
1	Shell	Stainless Steel	Ni:30u" Min.	
2	Mid Plate	Stainless Steel	Clear Only	
3	Top Contact	Copper Alloy	Mating Area: See P/N Solder Tails: GF	
4	Bottom Contact	Copper Alloy		
5	Insulator	High Temperature Plastic	UL 94V−0	Black

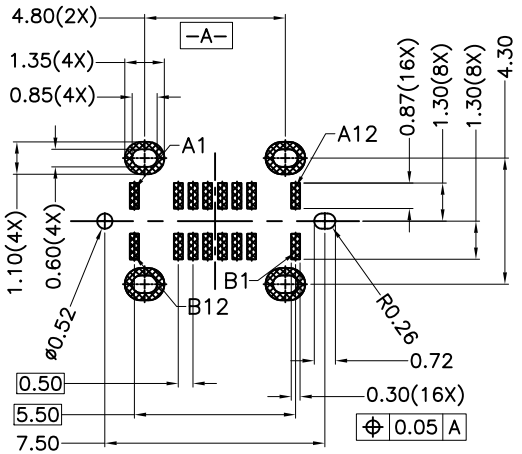
REV	ECN NO	DESCRIPTION	DESIGN	DATE
B	TE2020−0260	ADD SECTION A−A VIEW	Mike	2020/10/29
A	TE2020−0040	New Drawing	Mike	2020/06/22

X. ± 0.35	APPD: Lebon Lee	TITLE: USB C F 16PIN VERTICAL W/O EMI SPRING,H6.5	泰康电子 TECONN	
.X ± 0.25				
.XX ± 0.15	CHKD:			
.XXX±				
X° ± 2°	DR: Mike	PART NO: A4Q1605−A−XX−R		
.X° ± 1.5°				
	UNITS: mm	SCALE: 4:1	DWG NO: C−A4Q1605−A−XX−R	CUSTOMER DRAWING
				SHEET: 1OF2
				REV: B

THE PART MEETS TECONN "GP001" COMPLIANCE NEW REV.

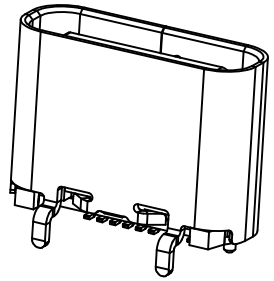


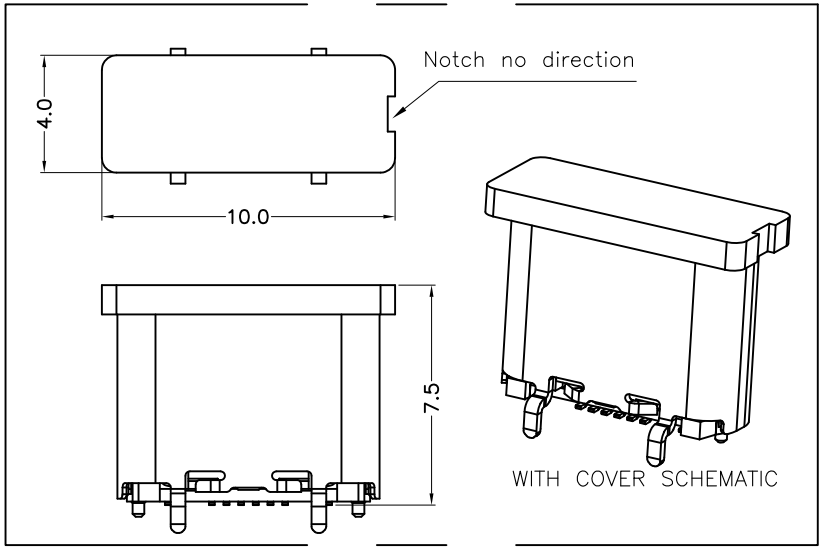
FEMALE AND MALE MATCHING DRAWING



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

REV	ECN NO	DESCRIPTION	DESIGN	DATE
B	TE2020-0260	ADD SECTION A-A VIEW	Mike	2020/10/29
A	TE2020-0040	New Drawing	Mike	2020/06/22

X. ± 0.35 .X ± 0.25 .XX ± 0.15 .XXX± X° ± 2° .X° ± 1.5°	APPD: Lebon Lee CHKD: DR: Mike	TITLE: USB C F 16PIN VERTICAL W/O EMI SPRING,H6.5 PART NO: A4Q1605-A-XX-R	泰康电子 TECONN
UNITS: mm	SCALE: 4:1	DWG NO: C-A4Q1605-A-XX-R CUSTOMER DRAWING	SHEET: 2OF2 REV: B