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RoHS COMPLIANT

REV.	DESCRIPTION	ECN NO.	DWN.	CHK.	APVD.	DATE
A			Xie	Fan	Zhou	2017.12.15

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.

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.

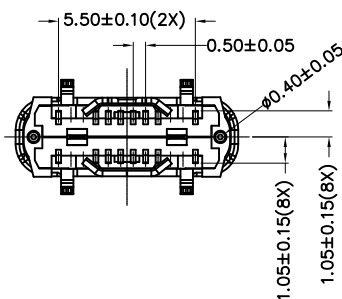
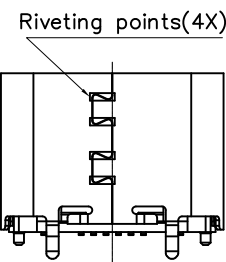
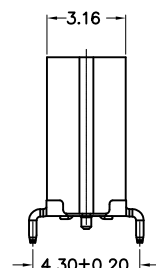
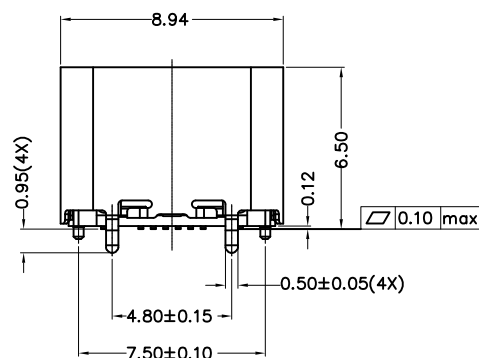
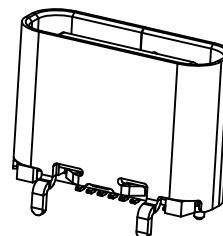
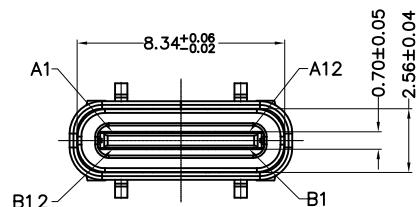
5. ENVIRONMENTAL PERFORMANCE:

OPERATING TEMPERATURE: -25°C~+85°C.

6.IR REFLOW:

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

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	
4	Bottom Contact	Copper Alloy	Solder Tails: GF	
5	Insulator	High Temperature Plastic	UL 94V-0	Black



Ordering Information

184j - $\frac{XX}{a} \frac{X}{b} \frac{X}{c} \frac{X}{d} \frac{X}{e} \frac{X}{f}$

a. No. Of Pins

16: 16 positions

b. Contact Type

4: Female (Four feet DIP TYPE)

c. Contact Plating

0: Gold flash selective gold

2: 15u" selective gold over 50u" nickel

3: 30u" selective gold over 50u" nickel

d. Shell Type

1: Nickel

e. Insulator Color

1: Black (LCP)

f.Contact Type(Signal Pin)

K: 180° SMT Type(H=6.5mm)

DIMENSIONS:

☐ mm [INCH] ☐ INCH [mm] ☒ mm ONLY

UNLESS OTHERWISE SPECIFIED,
GENERAL TOLERANCE:

DECIMALS ANGLES
X: ±0.38 X*: ±3°
.X ±0.25 .X*: ±1.0°
.XX ±0.15

MATERIAL:

FINISH:

CAD GENERATED DRAWING,
DO NOT MANUALLY UPDATE
DRAWN BY AND DATE
Xie 2017-12-15

CHECKED BY AND DATE
Fan 2017-12-15

APPROVED BY AND DATE
Zhou 2017-12-15

THIRD ANGLE PROJECTION



SCALE:

1:1

SIZE:

A3



Y-S ELECTRONIC CO., LTD.

TITLE

184j SERIES
USB 3.1 TYPE C

DRAWING NO.

184j-164011K

REV

A

FILE NO.:

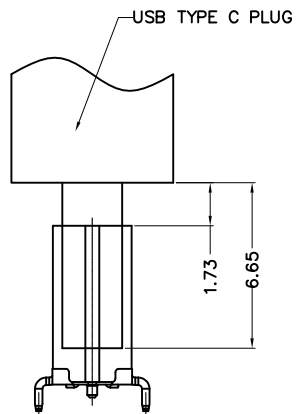
SHEET 1 OF 4

DO NOT SCALE DRAWING

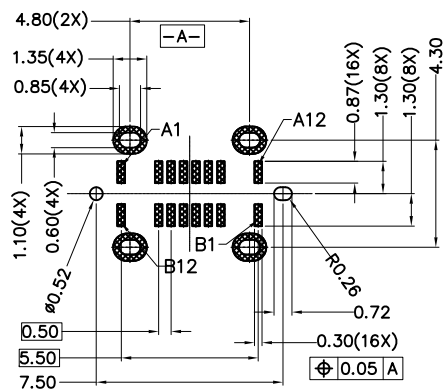
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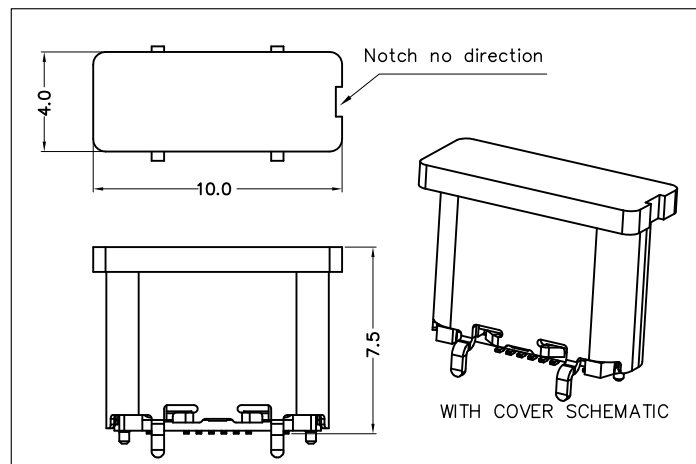
FEMALE AND MALE MATCHING DRAWING



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



DIMENSIONS:		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE		 Y-S ELECTRONIC CO., LTD	
☐ mm [INCH]	☐ INCH [mm]	☒ mm ONLY	DRAWN BY AND DATE Xie 2017-12-15		
UNLESS OTHERWISE SPECIFIED, GENERAL TOLERANCE:		CHECKED BY AND DATE Fan 2017-12-15		TITLE 184j SERIES USB 3.1 TYPE C	
DECIMALS ANGLES X. ±0.38 X° ±3° .X ±0.25 .X° ±1.0° .XX ±0.15		APPROVED BY AND DATE Zhou 2017-12-15			
MATERIAL:		THIRD ANGLE PROJECTION 			
FINISH:		SCALE: 1 : 1	SIZE: A3	DRAWING NO. 184j-164011K	REV A
FILE NO.:			SHEET 2 OF 4		