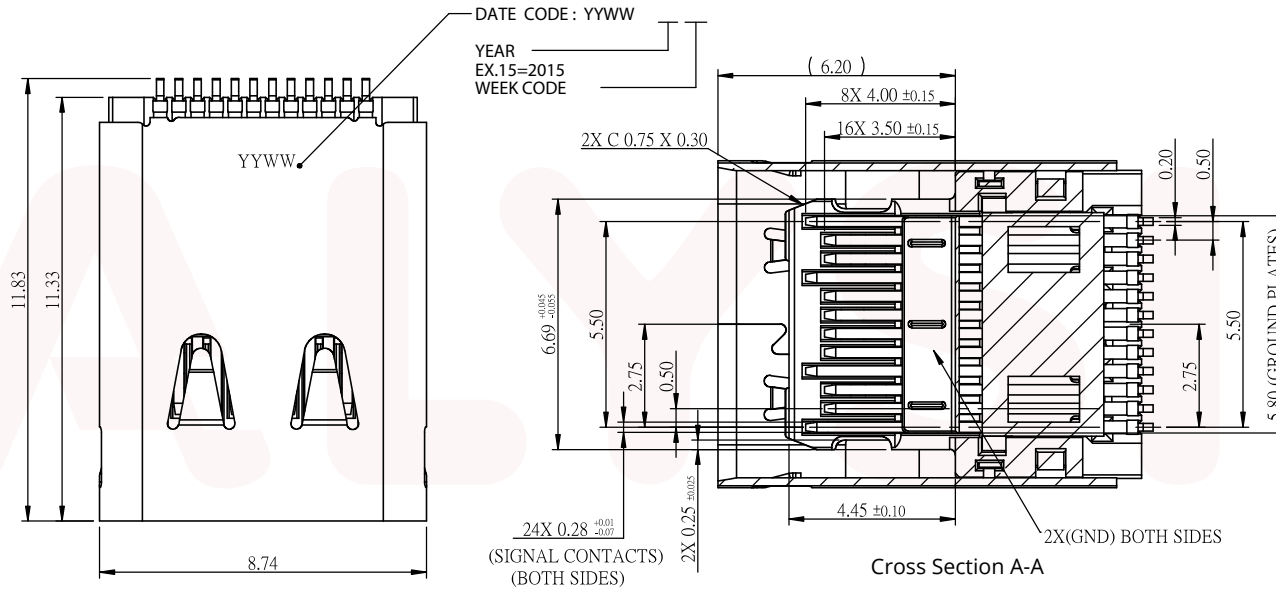


# ALYSIUM

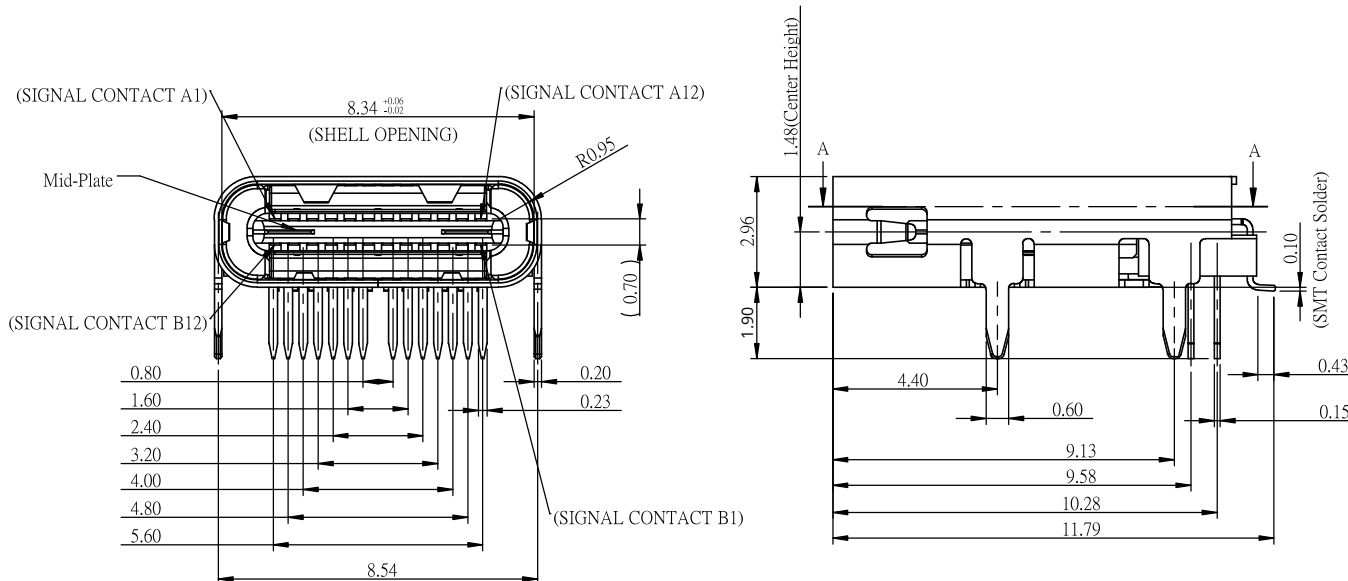
EVOLUTIONARY INTERCONNECTS

DRAWING REF: **A46-4827**  
 DRAWING REF: USB Type C Receptacle Hybrid, PCB Mount (1.6mm)  
 REVISION: 00 (KH 160310) Initial Issue



**MATERIAL**  
 Insulator: Thermoplastic, Black  
 Contacts: BRASS  
 Shell: Stainless Steel  
**CONTACT PLATING**  
 Underplate: 80u"~160u" Nickel  
 Contact area: 30u" Pd-Ni+2u" Selective gold,  
 Solder tails area: 100u"~200u" Tin (Lead Free)  
**ELECTRICAL**  
 Operation voltage: 20 V  
 Current rating: 5 Amps max.  
 Insulation resistance: 100 Mohms min @ 100 VDC  
 Dielectric withstanding voltage: 100 VAC / minute  
 Temperature range: -40°C TO +105°C  
 Mating cycles: 10,000 insertions

1. USB Series
2. SMT+DIP Type
3. RoHS2 (Matte) (Halogen Free)
4. Contact Number: 24 Pins
5. Contact Type: Female (LCP)
6. Contact Area Plating: 30u" Pd Ni+2u" GOLD
7. Solder Tails Area Plating: 100u"~200u" TIN (Lead Free)
8. Apply Type: Socket
9. Shell Plating: Ni-Plated (w/o Rear Cover)
10. W/O Rear masking sheet (PCB 1.60mm)
11. Packing Style: Tape & Reel
12. Insulator Color: Black

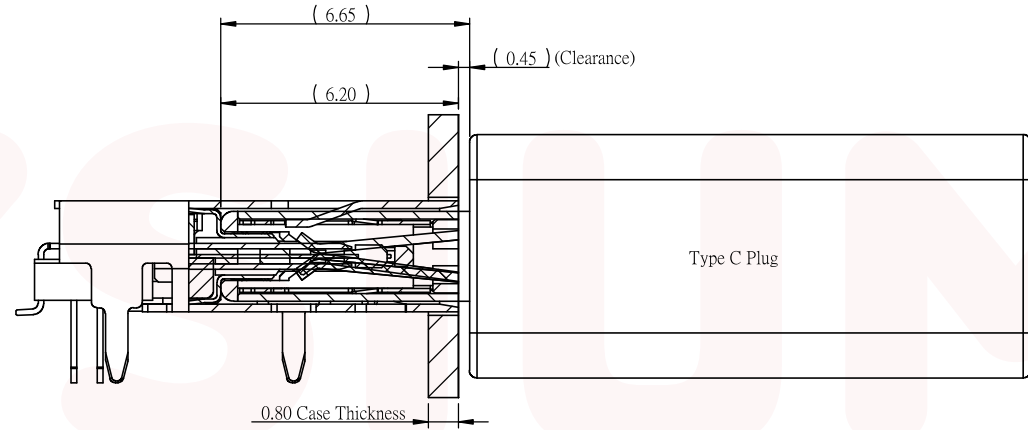
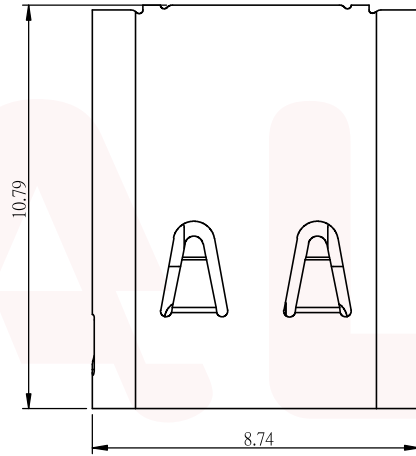


UNLESS OTHERWISE SPECIFIED TOLERANCE	
ANG.	±5 °
0.	±0.50
.0	±0.30
.00	±0.20

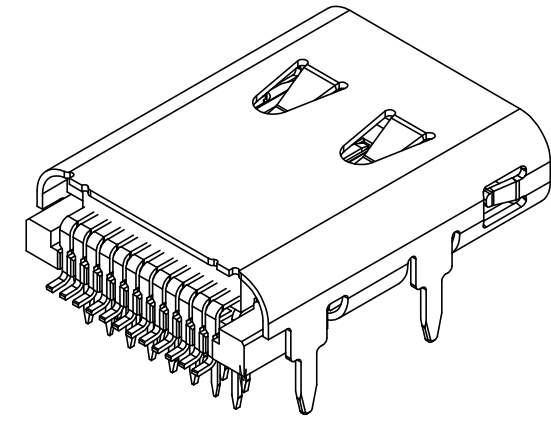
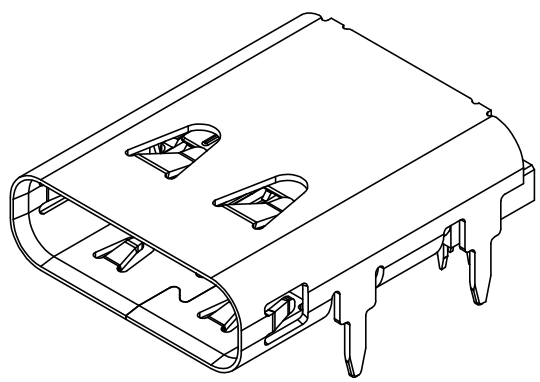
# ALYSIUM

EVOLUTIONARY INTERCONNECTS

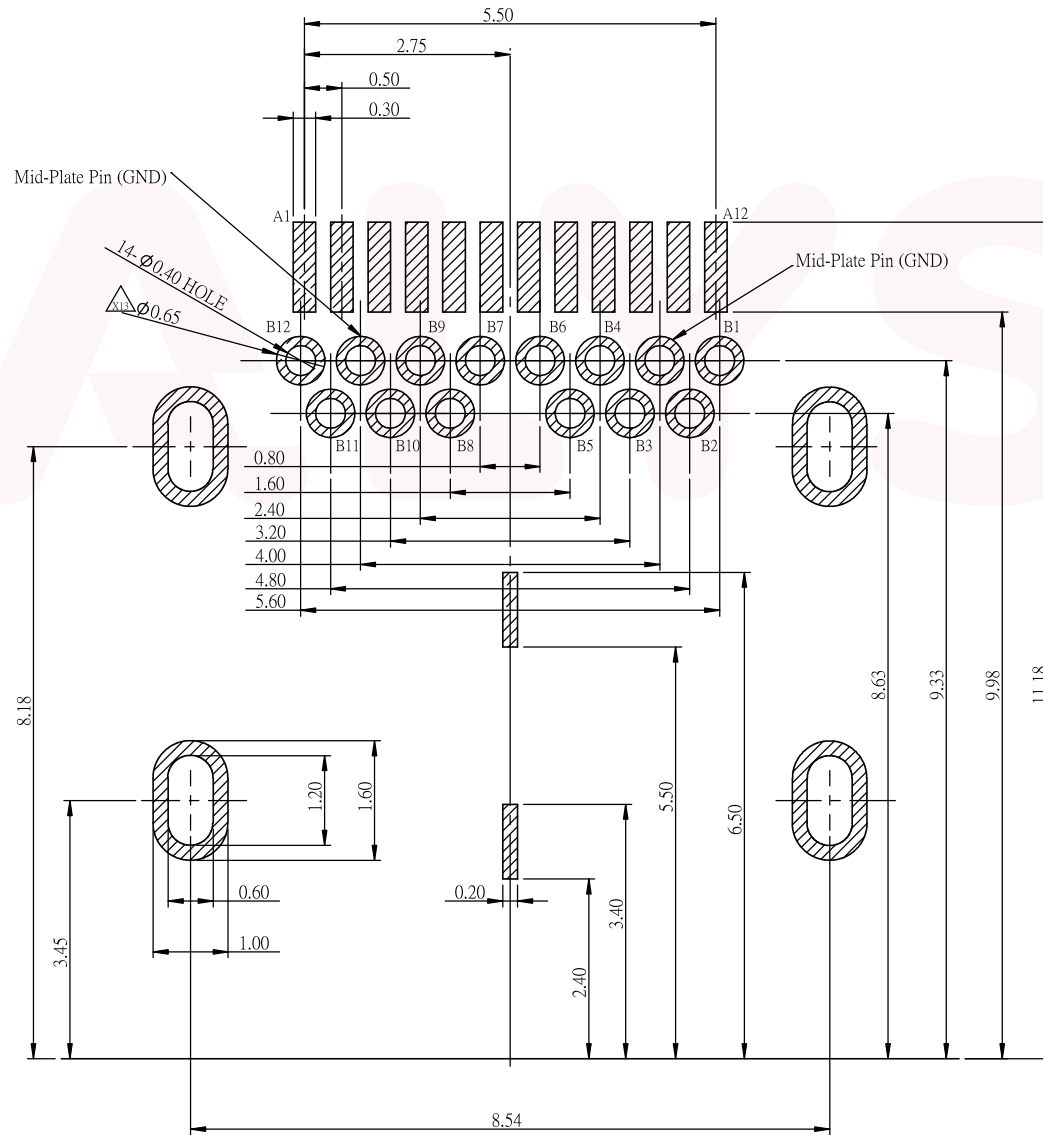
DRAWING REF: **A46-4827**  
DRAWING REF: USB Type C Receptacle Hybrid, PCB Mount (1.6mm)  
REVISION: 00 (KH 160310) Initial Issue



PLUG FULLY SEATED IN RECEPTACLE



UNLESS OTHERWISE SPECIFIED TOLERANCE	
ANG.	±5 °
0.	±0.50
.0	±0.30
.00	±0.20



**Recommended PCB LAYOUT**  
 Tolerance  $\pm 0.05$   
 PCB Thickness = 1.6mm For 1.90 Solder Tail

### USB TYPE-C PIN ASSIGNMENTS

Pin Number	Signal Name	Pin Number	Signal Name
A1	GND	B12	GND
A2	SSTXp1	B11	SSRXp1
A3	SSTXn1	B10	SSRXn1
A4	VBUS	B9	VBUS
A5	CC1	B8	SBU2
A6	Dp1	B7	Dn2
A7	Dn1	B6	Dp2
A8	SBU1	B5	CC2
A9	VBUS	B4	VBUS
A10	SSRXn2	B3	SSTXn2
A11	SSRXp2	B2	SSTXp2
A12	GND	B1	GND

UNLESS OTHERWISE SPECIFIED TOLERANCE	
ANG.	$\pm 5^\circ$
0.	$\pm 0.50$
.0	$\pm 0.30$
.00	$\pm 0.20$