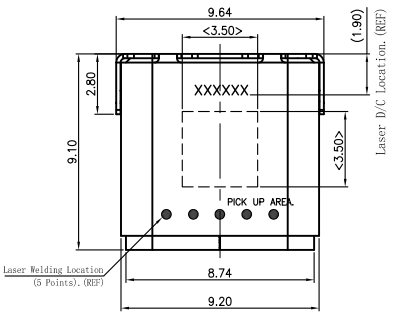
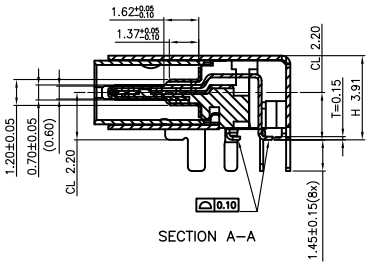
APPROVED: _____

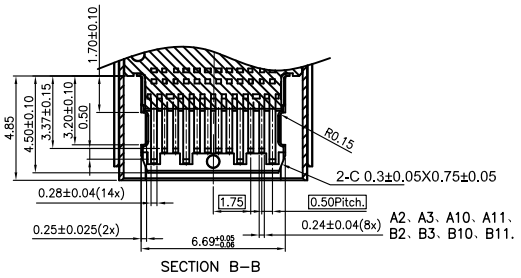
DATE: _____ TITLE: _____

Rev	AWO #	Description	Date	Appr
-		RELEASED	3/22/18	
A		UPDATED DRAWING	7/27/18	HR/YC

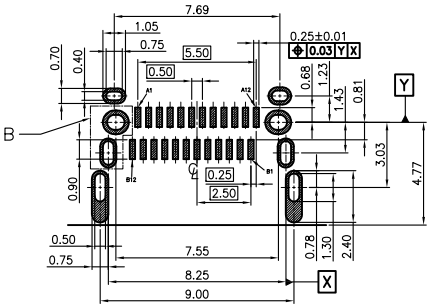




SECTION A–A



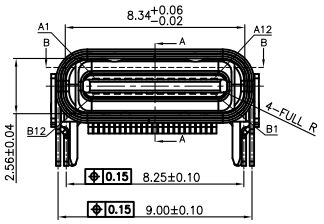
SECTION B–B

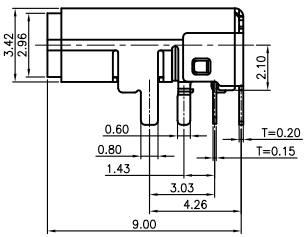


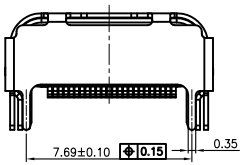
RECOMMEND P.C.B LAYOUT(COMPONENT SIDE)

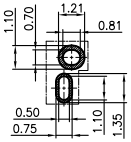
TOLERANCE FOR PCB LAYOUT IS ± 0.05

PAD AREA

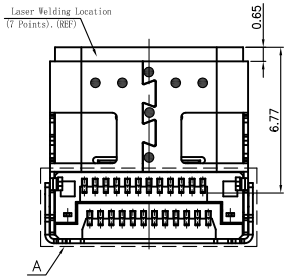


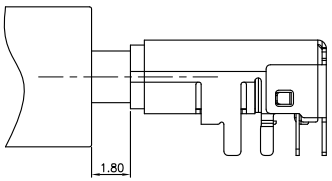




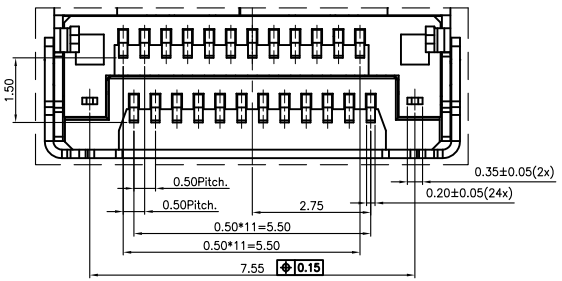


DETAIL B





MATING CONDITION



Detail A
SC 2:1

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

SPECIFICATIONS:

Material:

Insulator: Hi–temp thermoplastic, rated UL 94V–0

Insulator color: Black

Contacts: Copper Alloy

Shell: Stainless Steel, Nickel plated

Plating:

Gold flash over Nickel underplate on Contact area

Matte Tin over Nickel underplate on Solder tails

Electrical:

Current rating: 5 A (Power supply pin: A1, A4, A9, A12, B1, B4, B9, B12)
1.25 A (Vconn pin)
0.25 A (Other signal pin)

Contact resistance: 40 mohms max @ 20mV, 100 mA

Insulation resistance: 100 Mohms min.

Dielectric withstanding: 100 VAC RMS

Mechanical:

Insertion force: 5~20N

Withdrawal force: 6~20N After test

Durability: 10,000 Cycles

Temperature Rating:

Operating temperature: –40°C to +85°C

Environmental:

Lead free, RoHS compliant.

RoHS COMPLIANT

PACKAGED ON TAPE & REEL

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE MILLIMETERS
TOLERANCES: EXCEPT AS NOTED

MM	ANGEL
X. ± 0.50	±2°
X.X ± 0.25	
X.XX ± 0.20	
X.XXX ± 0.10	

APPROVALS		DATE
DRAWN	HR	3/22/18
CHECKED	AC	3/22/18
APPROVED		

ADAM TECH INTERCONNECTS
909 Rahway Avenue,
Union, NJ 07083
Phone: 908-687-5000
Fax: 908-687-5710

TITLE: UNIVERSAL SERIAL BUS, TYPE C, FEMALE, RIGHT ANGLE, BLACK, TAPE & REEL

SIZE	PART NO.	REV.
X	USB-C31-S-RA-CS2-SMT-BK-T/R	A

REF: S00296T | SCALE: NTS | SHEET 1 OF 1

Mouser Electronics

Authorized Distributor

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