CUI Devices is now Same Sky! Learn More

MODEL: UJ20-C-G-MSMT-TR-68 | DESCRIPTION: USB RECEPTACLE

FEATURES

- USB Type C receptacle
- IP68
- USB 2.0
- o-ring accessory
- tape & reel packaging

SPECIFICATIONS

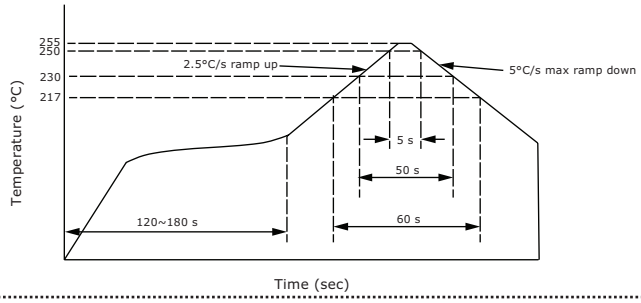
parameter	conditions/description	min	typ	max	units
USB standard	USB 2.0				
rated input voltage				20	Vdc
rated input current	as per EIA-364-70, Method B power pins collectively (A1, A4, A9, A12, B1, B4, B9, B12) VCONN pins individually (A5, B5) all other signal pins individually			 5.0 1.25 0.25	 A A A
contact resistance[1]	between terminals and mating plug			40	mΩ
insulation resistance	between adjacent contacts	100			MΩ
voltage withstand	between adjacent contacts	100			Vac
insertion force		5		20	N
withdrawal force		6		20	N
life			10,000		cycles
operating temperature		-40		85	°C
flammability rating	UL94V-0				
RoHS	yes				
IP level	IP68				

Note: 1. When measured at 20 mV / 100 mA.
2. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

SOLDERABILITY

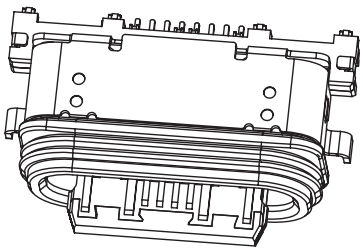
parameter	conditions/description	min	typ	max	units
reel storage	at relative humidity 65~70%	25		30	°C
reflow soldering[3]	see reflow profile		255	260	°C

Note: 3. It is recommended to reflow solder within 3 months from opening vacuum packaging at a temperature of 25~30°C & relative humidity 65~70%.

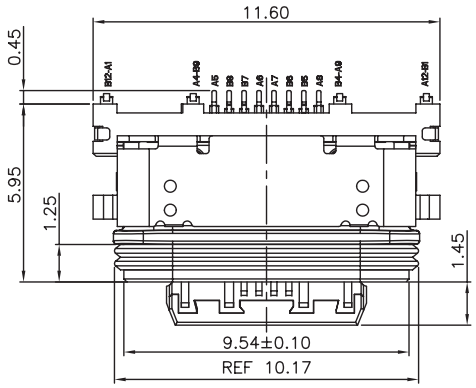


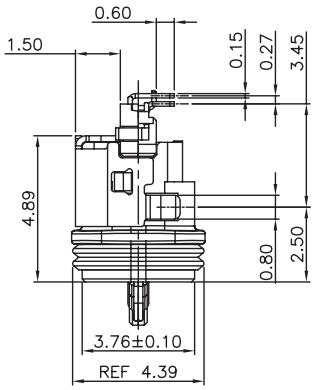
MECHANICAL DRAWING

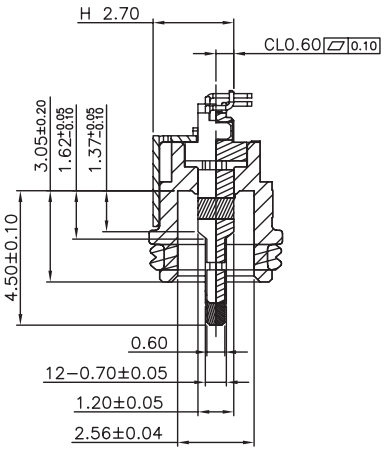
units: mm
tolerance:
X. ±0.50 mm
X.X ±0.30 mm
X.XX ±0.20 mm
X.XXX ±0.10 mm
unless otherwise specified



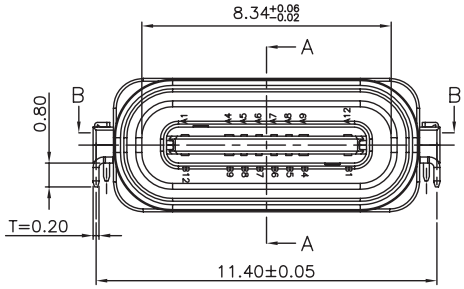
DESCRIPTION	MATERIAL	PLATING/COLOR
insulator	LCP (UL94V-0)	black
contact	copper alloy t=0.15 mm	contact area: gold flash over tin-nickel solder area: tin over nickel
shell	stainless steel t=0.20 mm	nickel
o-ring	silicone	black

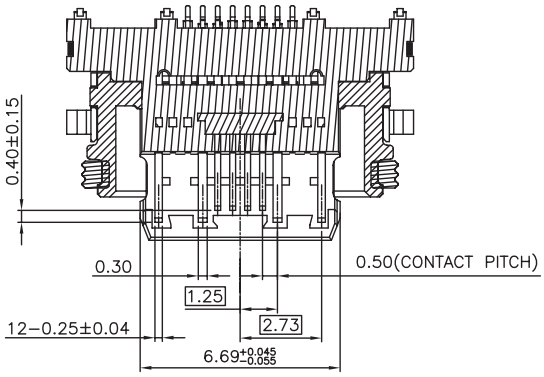




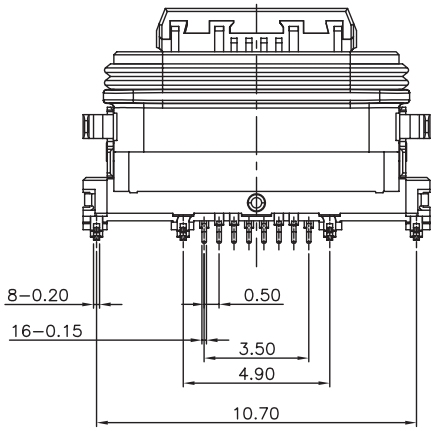


SECTION A−A

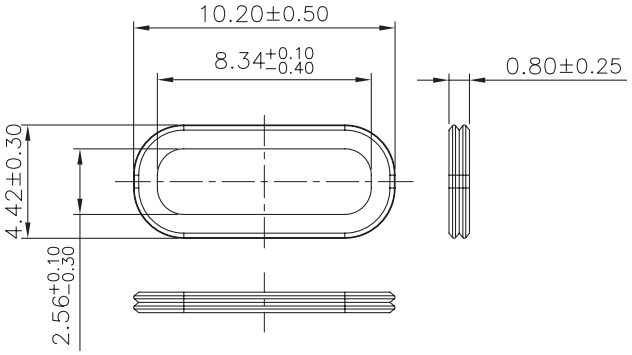




SECTION B−B



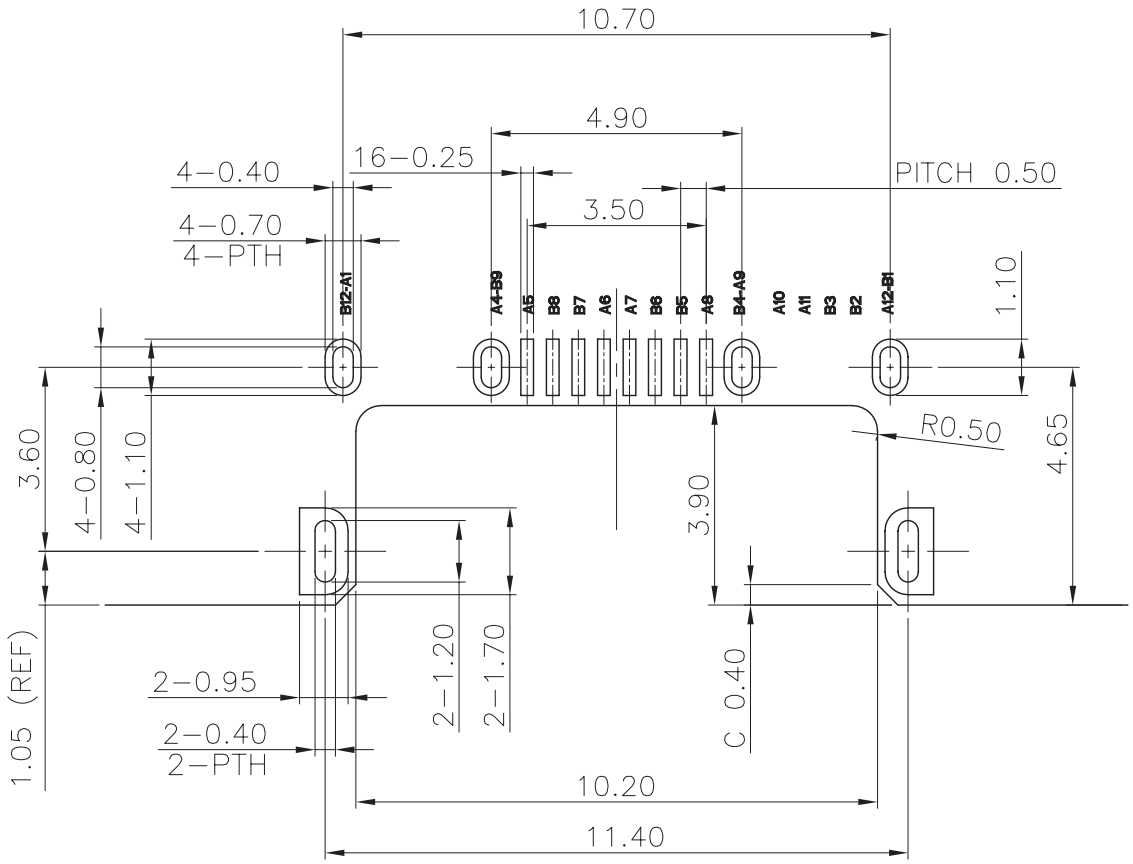
O-ring



MECHANICAL DRAWING (CONTINUED)

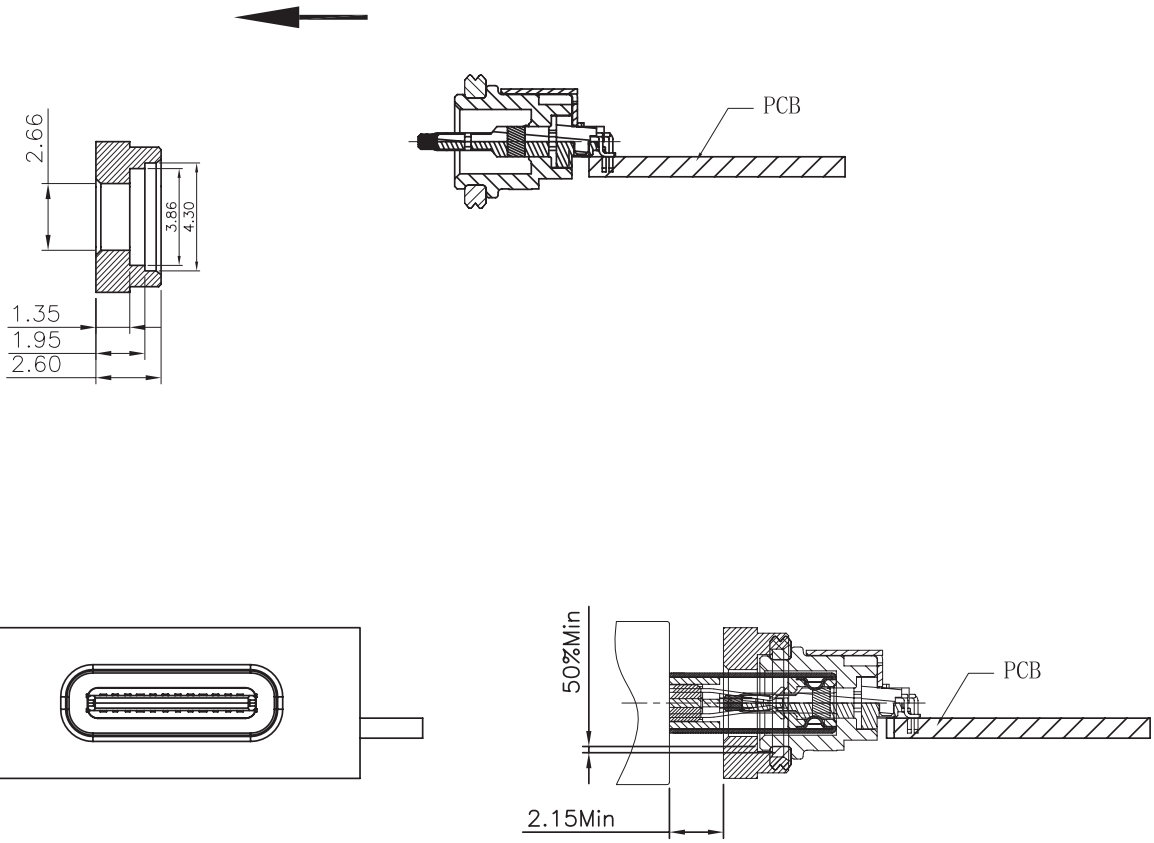
units: mm
PCB tolerance: ±0.05 mm

PIN CONNECTIONS					
PIN	SIGNAL NAME	MATING SEQUENCE	PIN	SIGNAL NAME	MATING SEQUENCE
A1	GND	FIRST	B12	GND	FIRST
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
A12	GND	FIRST	B1	GND	FIRST
SHELL		GND	SHELL		GND



Recommended PCB Layout
Top View

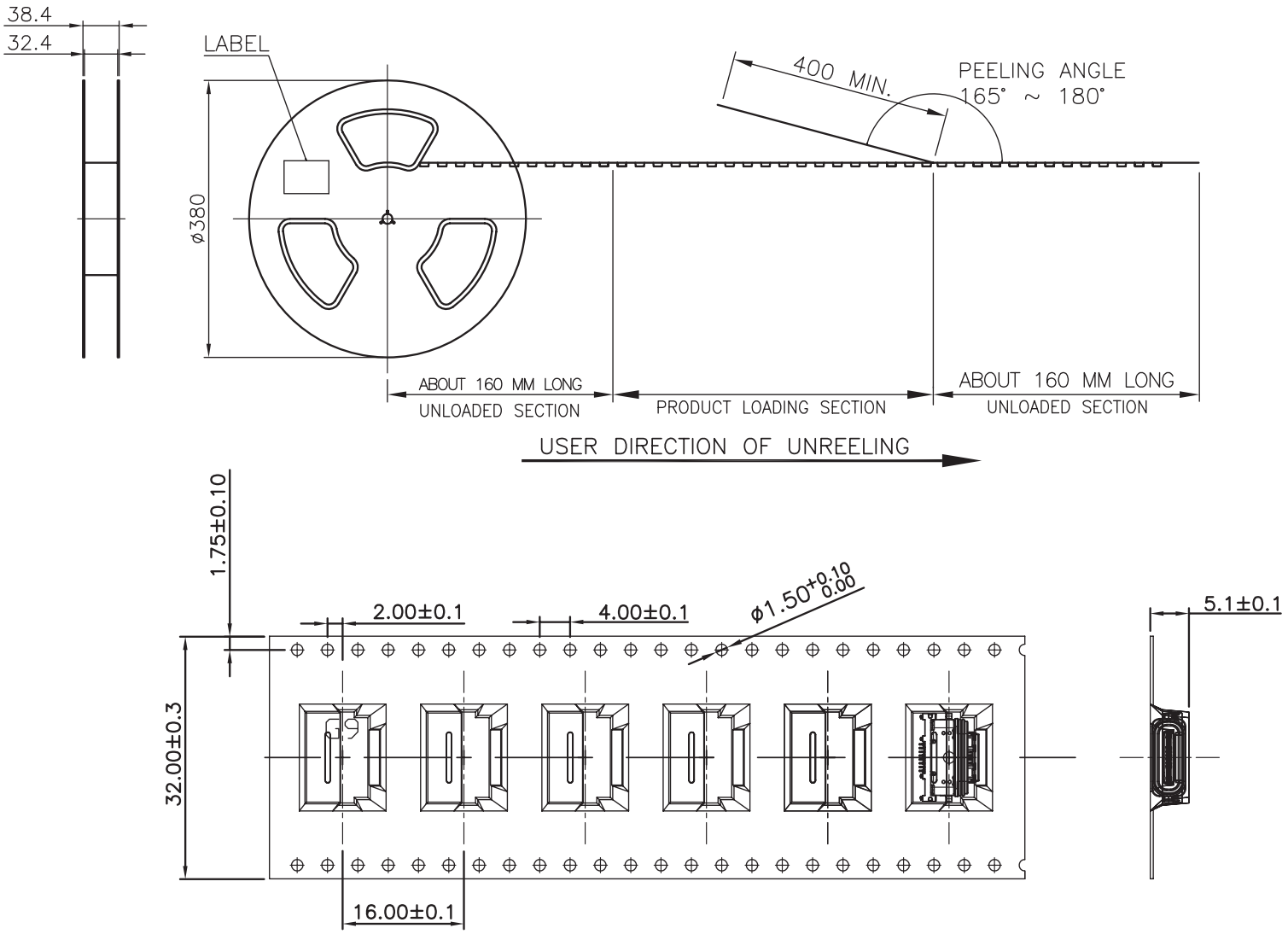
ASSEMBLY REFERENCE



PACKAGING

units: mm

Reel Size: Ø380 mm
Reel QTY: 1,000 pcs per reel
Carton Size: 405 x 405 x 330 mm
Carton QTY: 10,000 pcs



REVISION HISTORY

rev.	description	date
1.0	initial release	08/23/2023
1.01	CUI Devices rebranded to Same Sky	09/12/2024

The revision history provided is for informational purposes only and is believed to be accurate.

same sky

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