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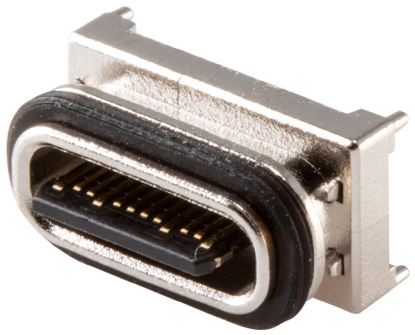
Additional Resources: Product Page | 3D Model | PCB Footprint

MODEL: UJ40-C-V-SMT-TR-68 | DESCRIPTION: USB RECEPTACLE

FEATURES

- USB Type C receptacle
- IP68
- USB 4.0
- o-ring shipping options
- tape & reel packaging



RoHS IP68

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
USB standard	USB 4.0				
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		8		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.

PART NUMBER KEY

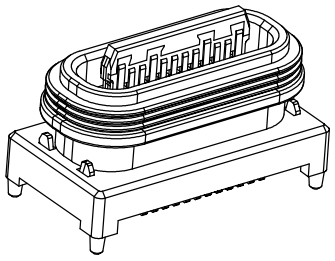
UJ40 - C - V - SMT - TR - 68 - **X**

Base Number

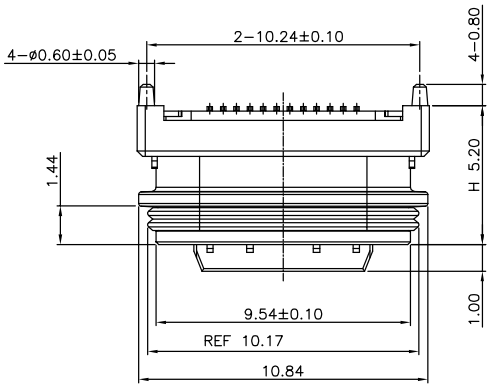
o-ring:
"blank" = o-ring assembled on part
N = o-ring is on the side

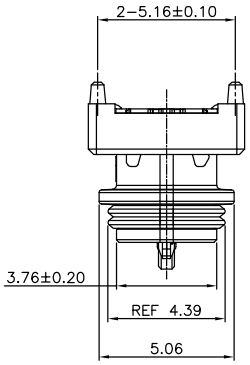
MECHANICAL DRAWING

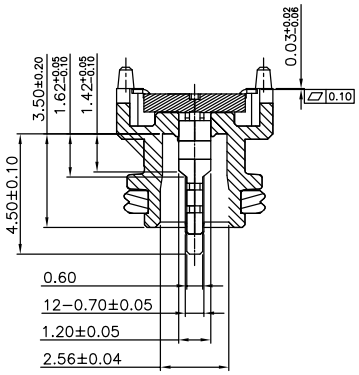
units: mm
tolerance:
X. ±0.50 mm
X.X ±0.30 mm
X.XX ±0.20 mm
X.XXX ±0.10 mm
unless otherwise specified



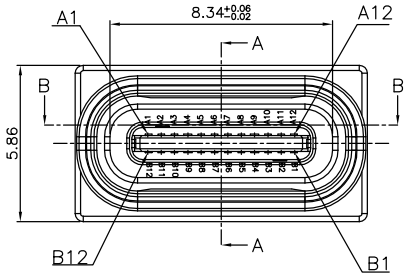
DESCRIPTION	MATERIAL	PLATING/COLOR
insulator	LCP (UL94V-0)	black
contact	copper alloy t=0.15 mm	contact area: gold flash over tin-nickel solder area: tin over nickel
shell	stainless steel t=0.25 mm	nickel
o-ring (OR-120)	silicone	black

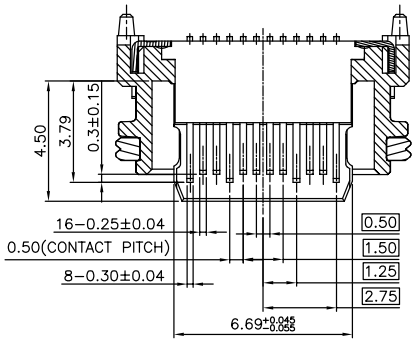




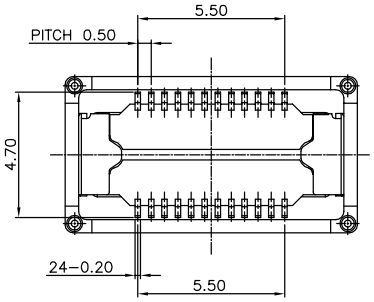


SECTION A−A

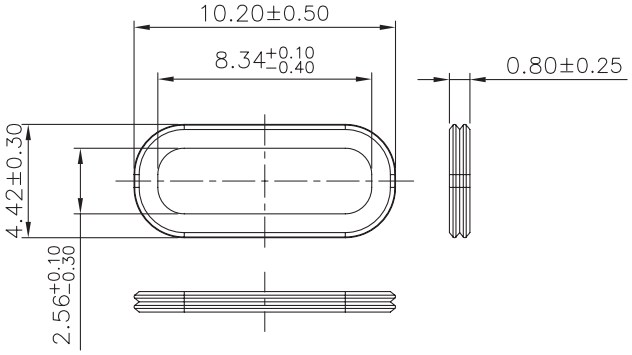




SECTION B−B



O-ring (P/N: OR-120)

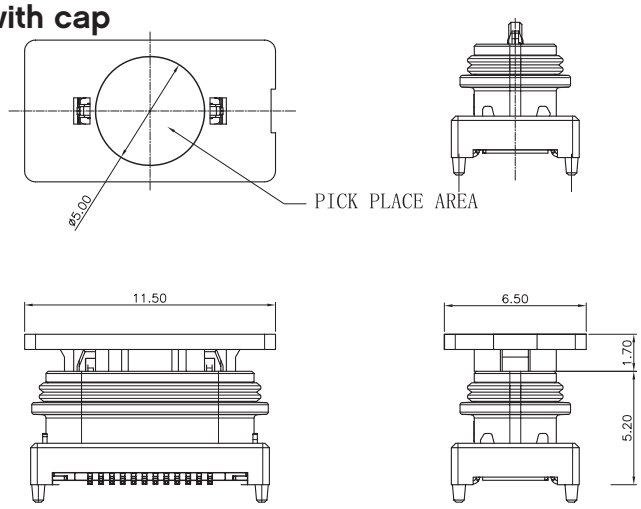


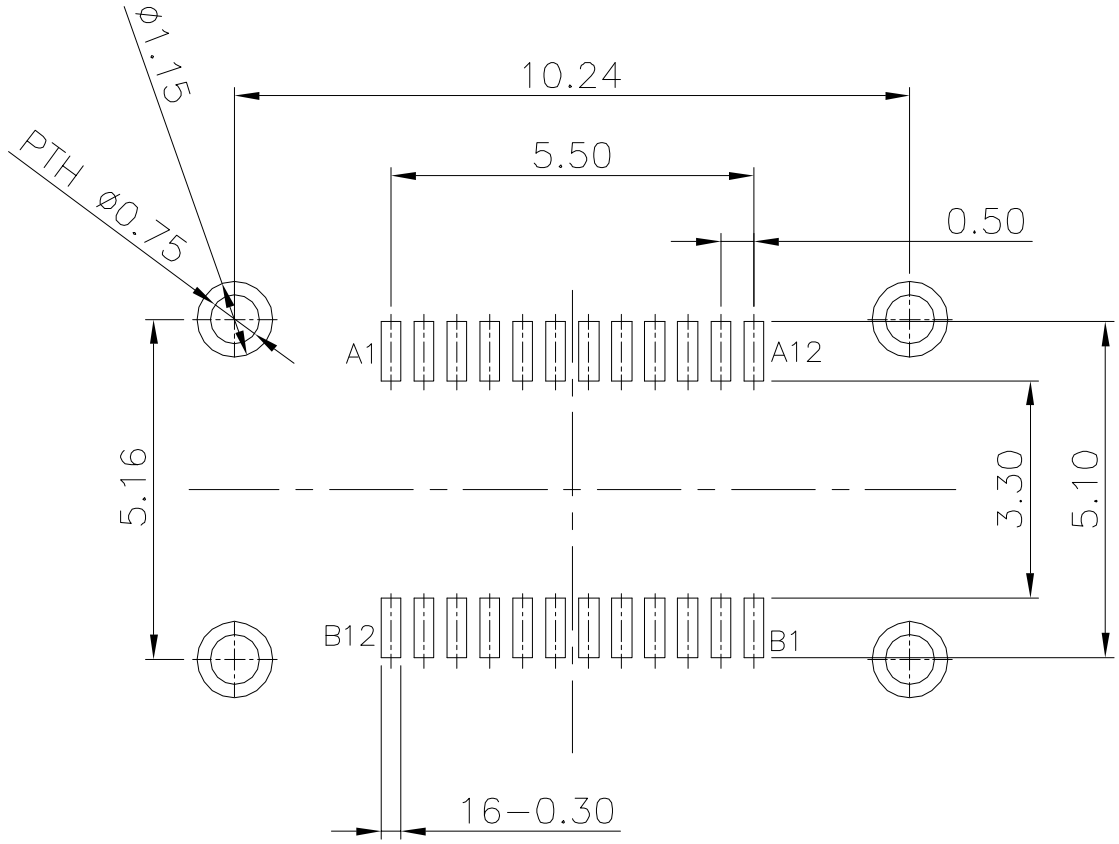
MECHANICAL DRAWING (CONTINUED)

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
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

with cap





Recommended PCB Layout
Top View

ASSEMBLY REFERENCE

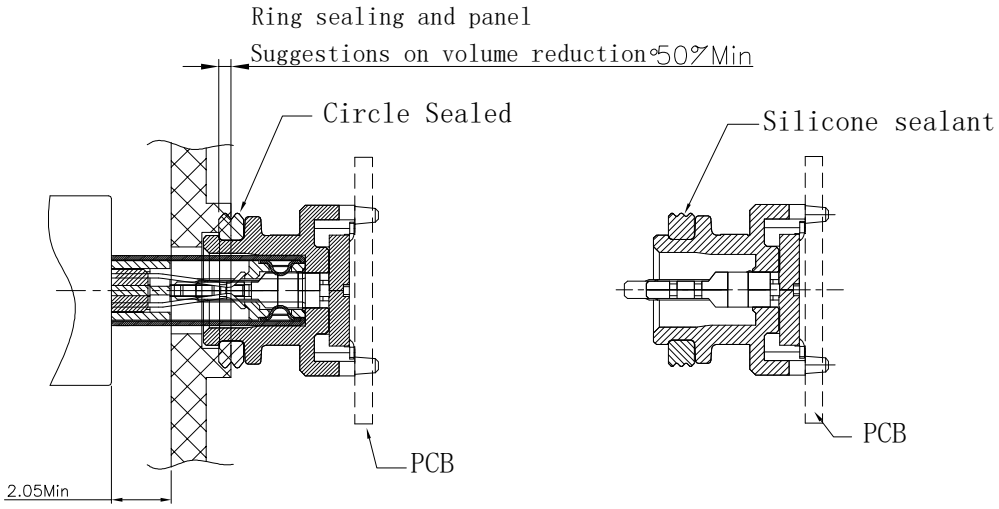
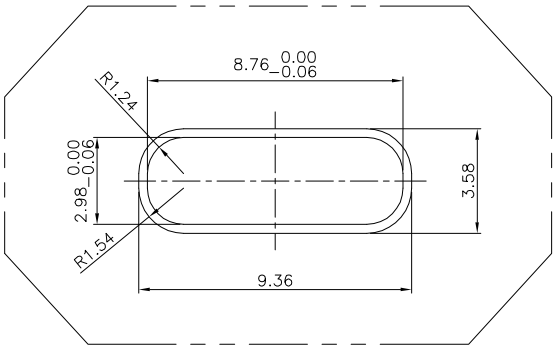
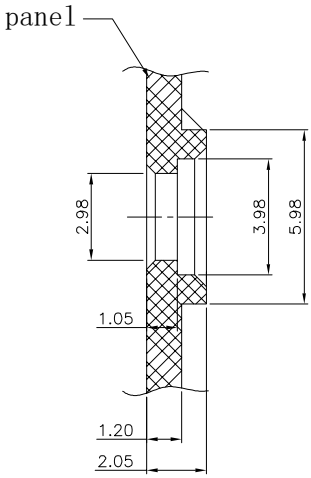
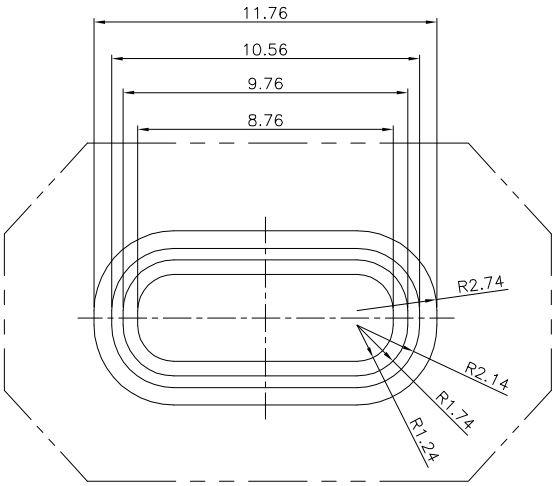


Diagram showing the female and male connectors for rear panel assembly



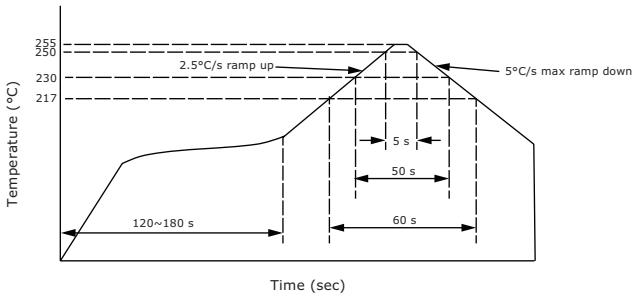




SOLDERABILITY

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

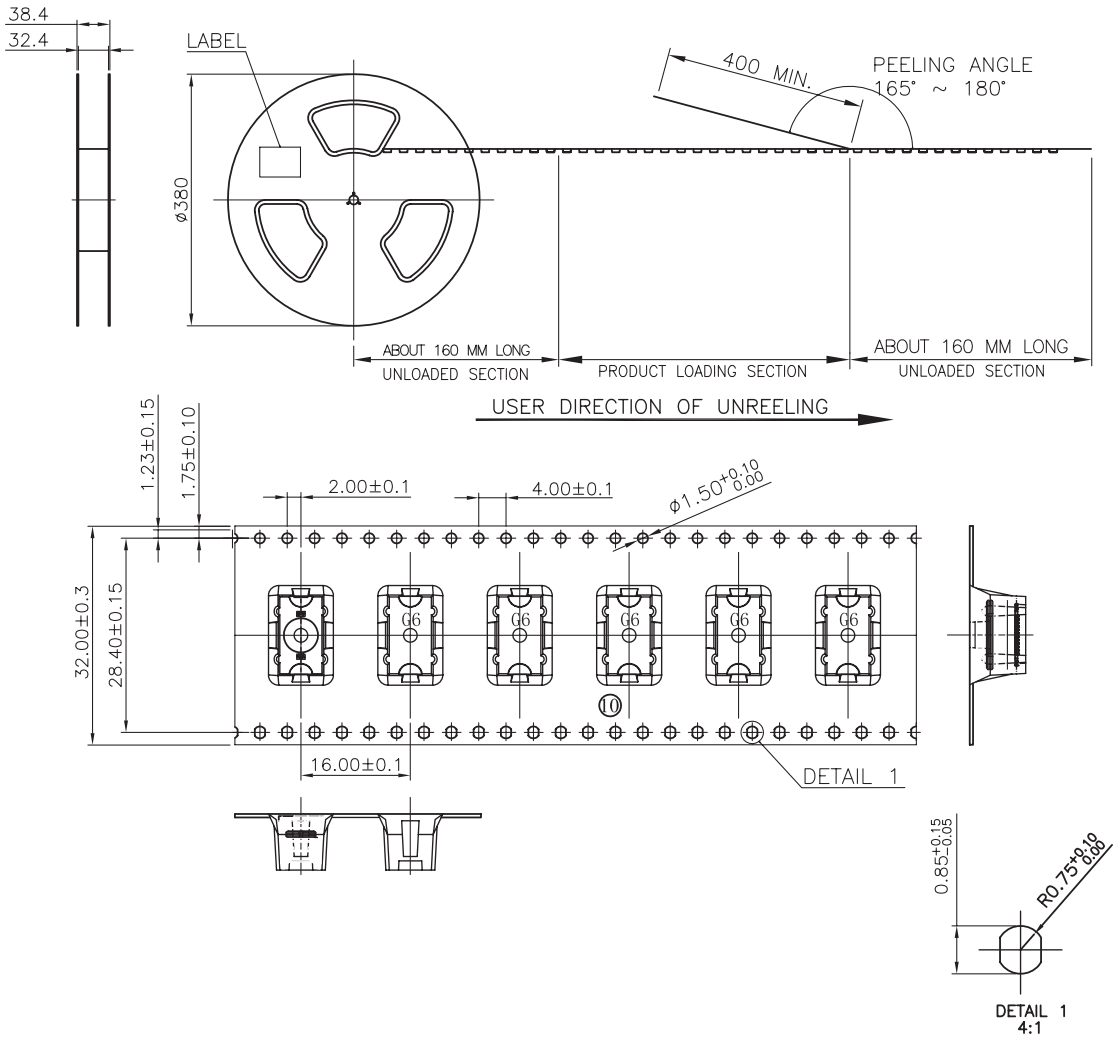
Note: 3. It is recommended to reflow solder within 3 months from opening vacuum packaging at a temperature of 25~30°C & relative humidity 65~70%.



PACKAGING

units: mm

Reel Size: Ø380 mm
Reel QTY: 650 pcs per reel
Carton Size: 405 x 405 x 330 mm
Carton QTY: 5,200 pcs



REVISION HISTORY

rev.	description	date
1.0	initial release	08/23/2023
1.01	added assembly reference dimension details	02/19/2024
1.02	CUI Devices rebranded to Same Sky	09/12/2024
1.03	added o-ring shipping option	04/18/2025
1.04	added o-ring part number	10/08/2025

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

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