

**MODEL:** UJ31-CH-G-SMT-TR-67 | **DESCRIPTION:** USB RECEPTACLE**FEATURES**

- IP67 rated
- surface mount
- USB 3.2 Gen 2
- 10 Gbit/s data transfer speed
- reflow solder compatible

**SPECIFICATIONS**

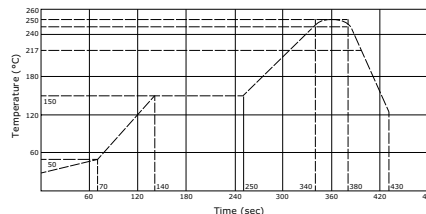
parameter	conditions/description	min	typ	max	units
USB standard	USB 3.2 Gen 2				
rated input voltage				20	Vdc
rated input current	as per EIA-364-70, Method B				
	power pins collectively [A4, A9, B4, B9]			5.0	A
	GND pins collectively [A1, A12, B1, B12]			1.25	A
	VCONN pins individually [A5, B5]			1.25	A
	all other signal pins individually			0.25	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	at a rate of 12.5 mm/min	5		20	N
withdrawal force	at a rate of 12.5 mm/min	8		20	N
life	at a rate of 500 ± 50 cycles per hour		10,000		cycles
operating temperature		-25		85	°C
flammability rating	UL94V-0				
RoHS	yes				
IP level	IP67				

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 <80%			40	°C
reflow soldering ³	see reflow profile	245	250	255	°C
drying conditions ⁴	parts in reel: bake at 40°C ±5°C for 72 hours parts removed from reel: bake at 40°C ±5°C for 10 hours				

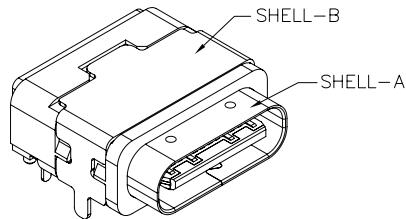
Note: 3. It is recommended to reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.
4. When exceeding floor life by >72 hours.



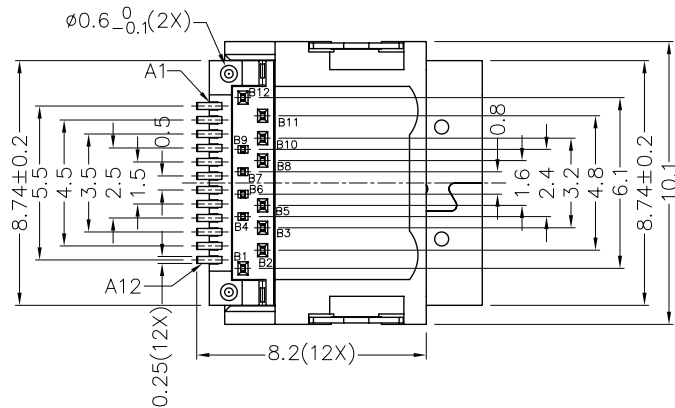
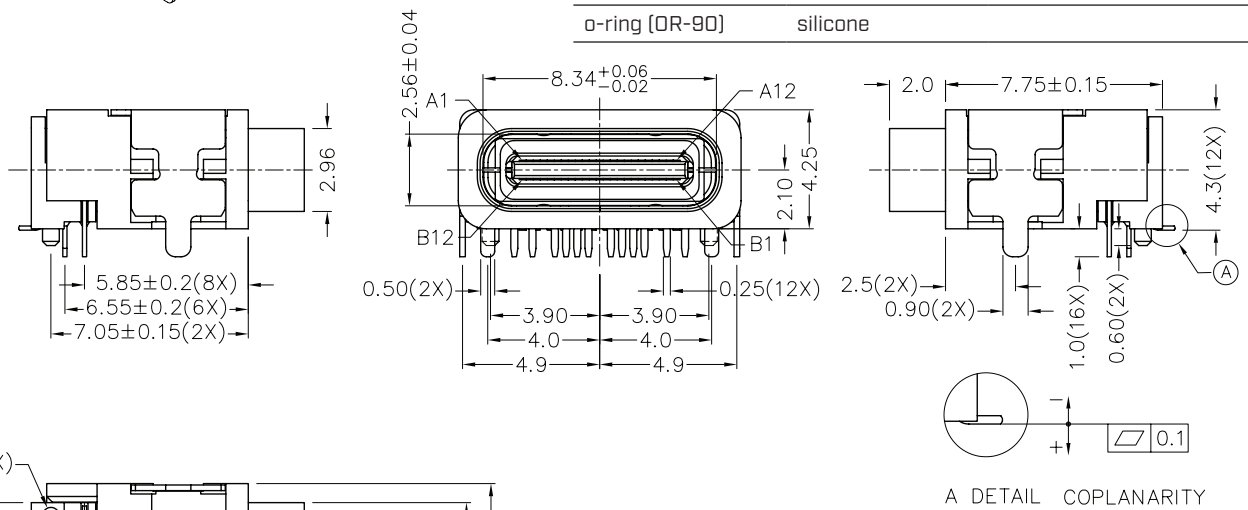
MECHANICAL DRAWING

units: mm

tolerance:

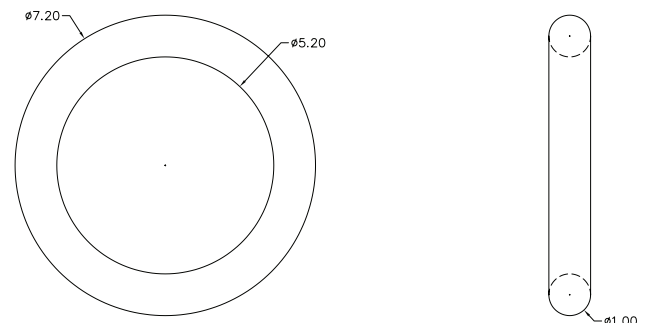
X.X ± 0.20 mmX.XX ± 0.10 mmX.XXX ± 0.05 mm

	MATERIAL	PLATING
contact terminals	copper alloy	nickel over all, gold flash on contact and solder area
shell-A	stainless steel	nickel
shell-B	brass	nickel
inner ground cover shell	stainless steel	
mid plate	stainless steel	nickel
insulator	PA10T	black
housing	PA10T	black
o-ring (OR-90)	silicone	



PIN NO.	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
	GND	TX1+	TX1-	Vbus	CC1	D+	D-	SBU1	Vbus	RX2-	RX2+	GND
PIN NO.	B12	B11	B10	B9	B8	B7	B6	B5	B4	B3	B2	B1
	GND	RX1+	RX1-	Vbus	SBU2	D-	D+	CC2	Vbus	TX2-	TX2+	GND

O-ring (P/N: OR-90)



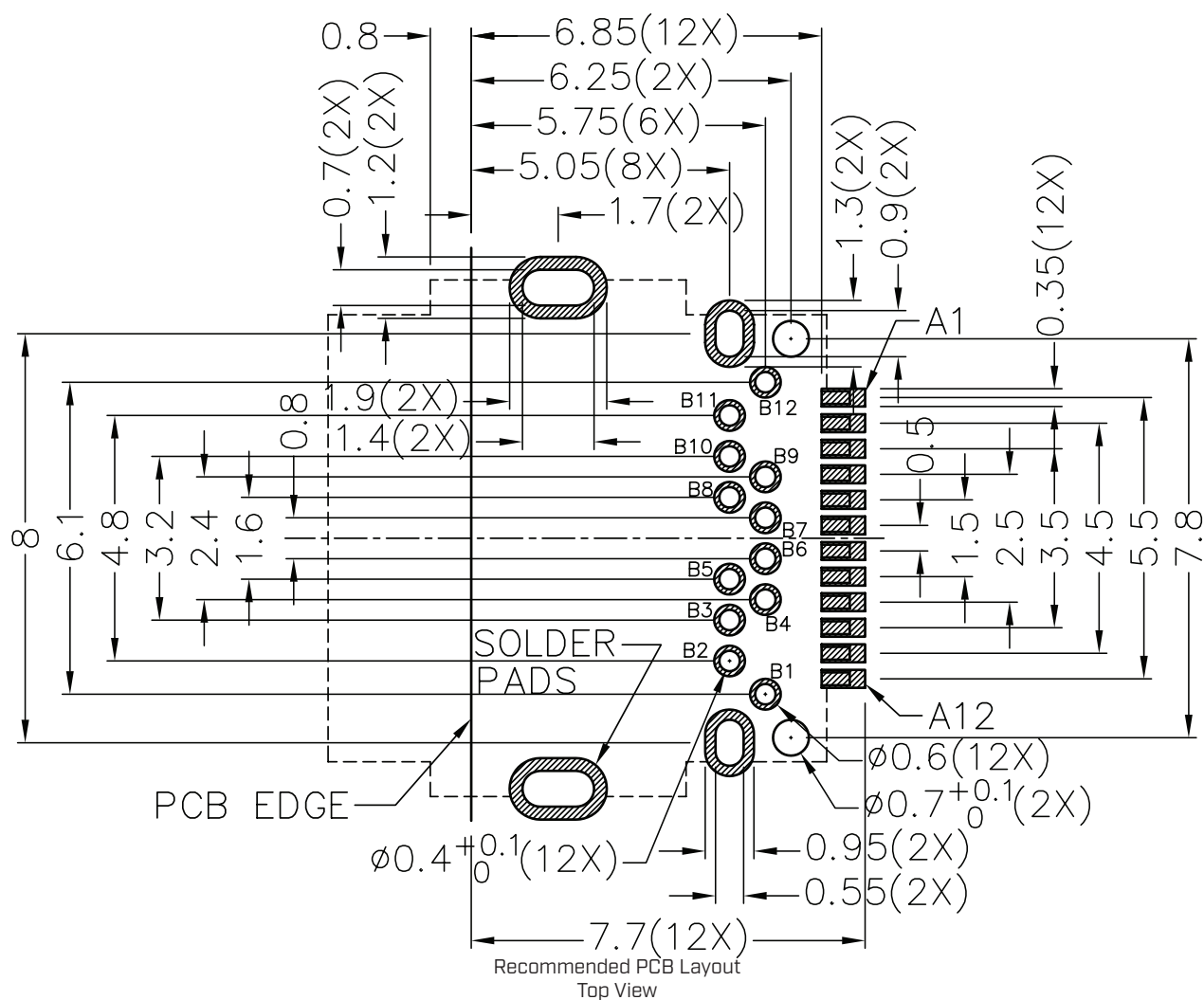
MECHANICAL DRAWING (CONTINUED)

units: mm

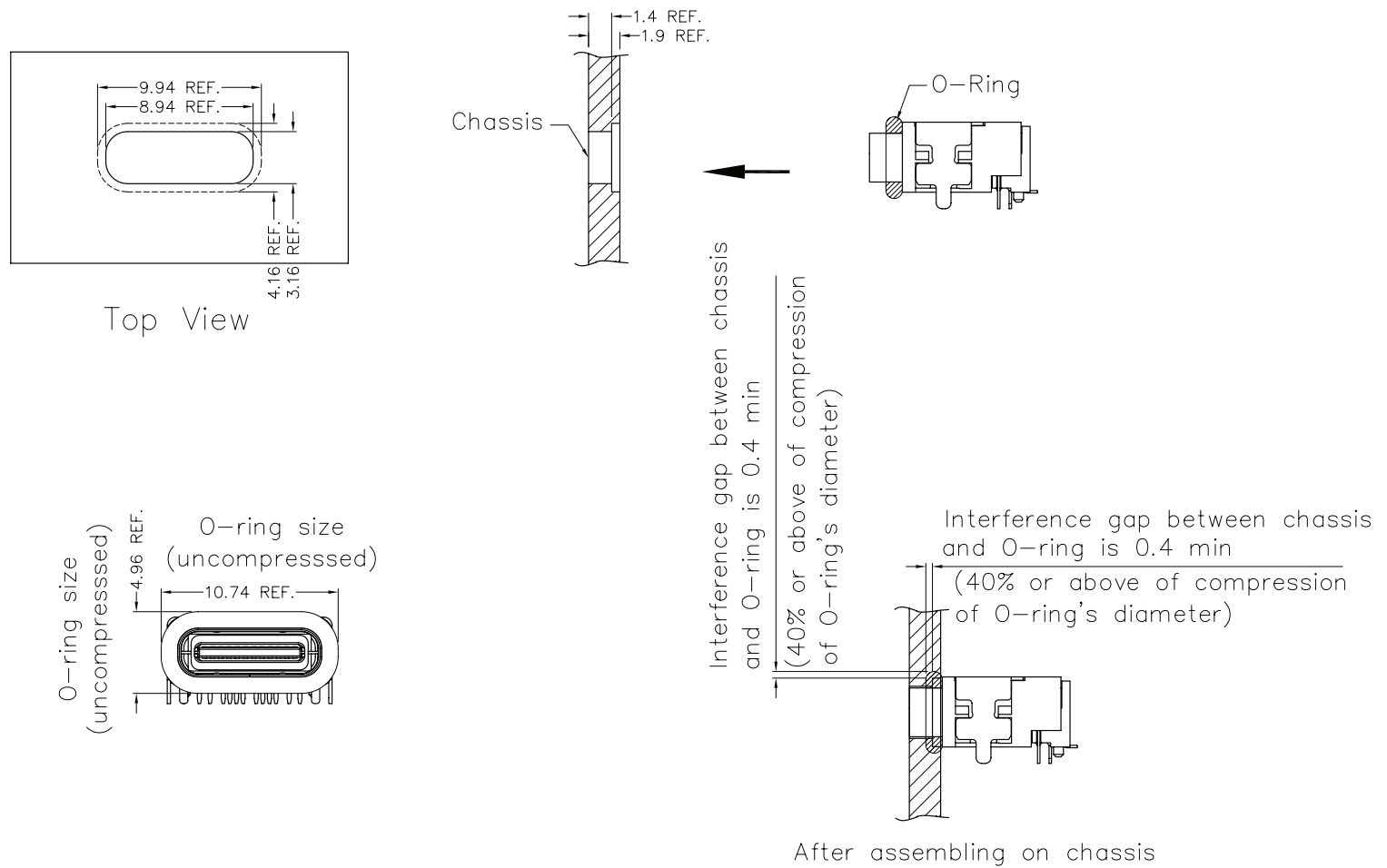
PCB tolerance: ± 0.05 mm

PCB thickness: 0.6~1.2 mm

PIN CONNECTIONS			
PIN	SIGNAL NAME	PIN	SIGNAL NAME
A1	GND	B12	GND
A2	TX1+	B11	RX1+
A3	TX1-	B10	RX1-
A4	V _{BUS}	B9	V _{BUS}
A5	CC1	B8	SBU2
A6	D+	B7	D-
A7	D-	B6	D+
A8	SBU1	B5	CC2
A9	V _{BUS}	B4	V _{BUS}
A10	RX2-	B3	TX2-
A11	RX2+	B2	TX2+
A12	GND	B1	GND



ASSEMBLY REFERENCE

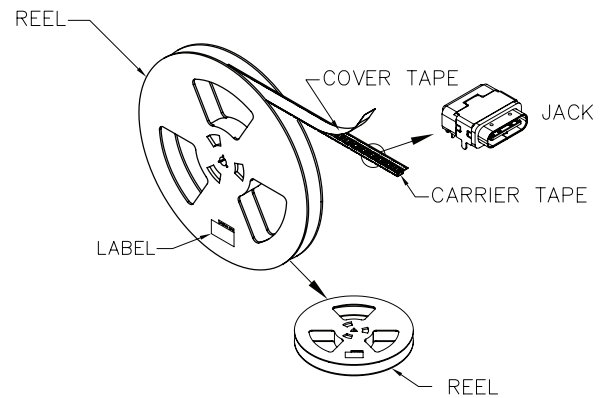
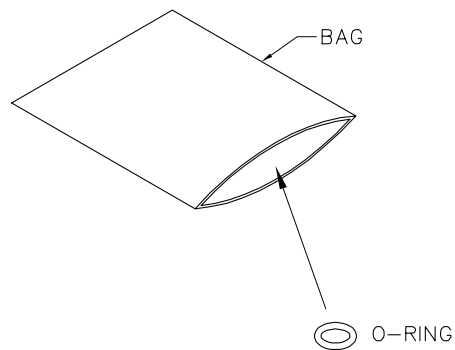
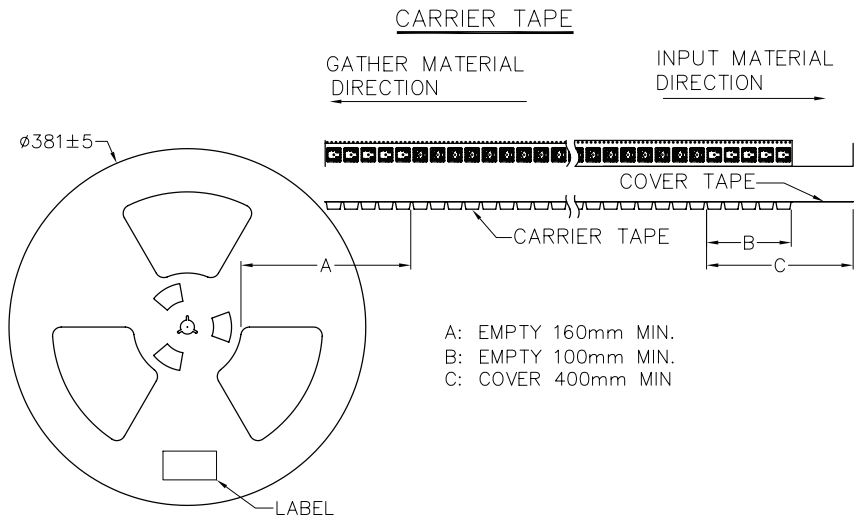
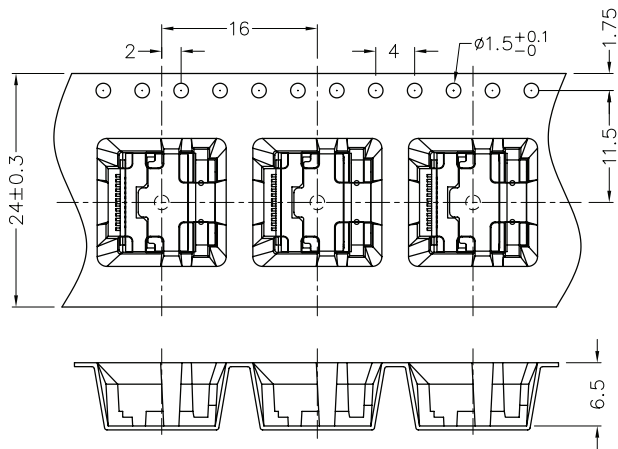


PACKAGING

units: mm

Reel Size: $\varnothing 381$ mm

Reel QTY: 900 pcs per reel



REVISION HISTORY

rev.	description	date
1.0	initial release	06/24/2020
1.01	updated USB standard, added o-ring p/n	04/21/2022
1.02	logo, datasheet style update	08/05/2022
1.03	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 offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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