CUI Devices is now Same Sky! Learn More

MODEL: PJ-001AH-67 | DESCRIPTION: DC POWER JACK

FEATURES

- IP67 waterproof
- low profile
- through hole
- reflow solder compatible
- shielded

SPECIFICATIONS

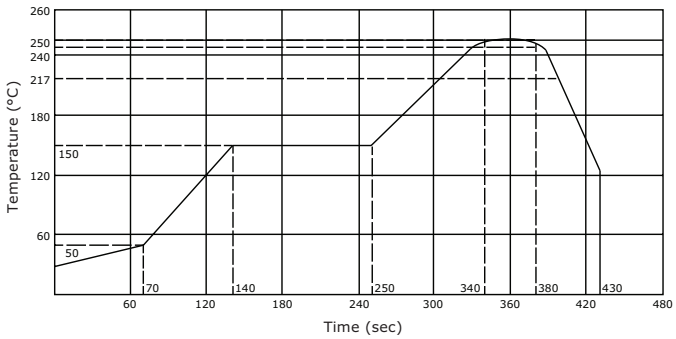
parameter	conditions/description	min	typ	max	units
rated input voltage			24		Vdc
rated input current				5	A
contact resistance[1]	between terminal and mating plug between terminal in a closed circuit			50 30	mΩ mΩ
insulation resistance	at 500 Vdc between adjacent contacts	100			MΩ
voltage withstand	for 1 minute between adjacent contacts			500	Vac
insertion/withdrawal force		0.3		3	kg
operating temperature		-25		85	°C
life	at a rate of 24 cycles/minute		5,000		cycles
flammability rating	UL94V-0				
RoHS	yes				
IP level	IP67				

Note: 1. When measured at a current of less than 100 mA/1 kHz
2. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

SOLDERABILITY

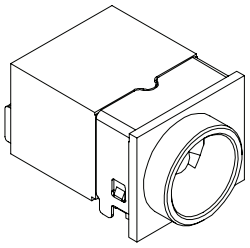
parameter	conditions/description	min	typ	max	units
reel storage	at relative humidity <80%			40	°C
reflow soldering[3]	see reflow profile	245	250	255	°C
drying conditions[4]	parts in reel: bake at 40°C ±5°C for 72 hours parts removed from reel: bake at 40°C ±5°C for 10 hours				

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.

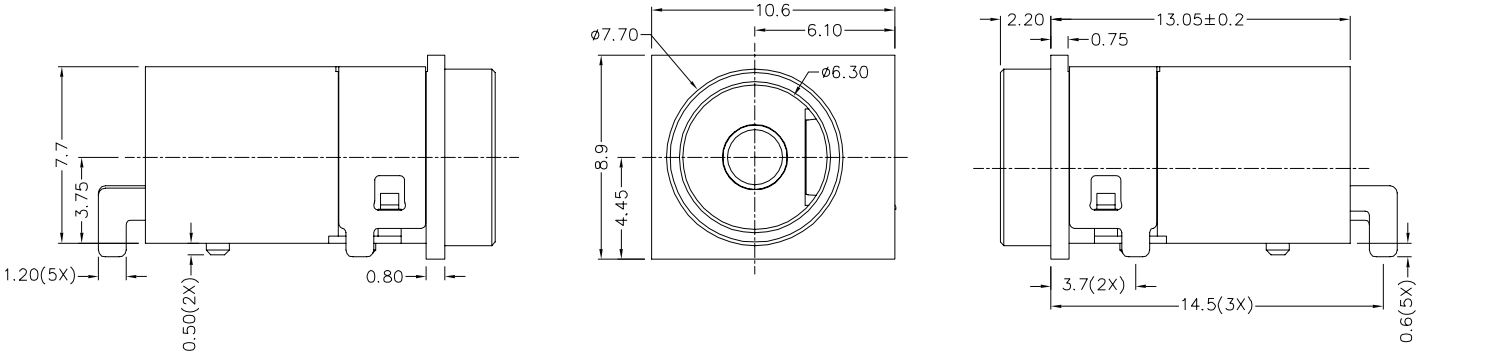


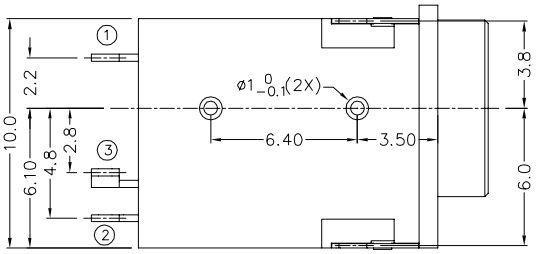
MECHANICAL DRAWING

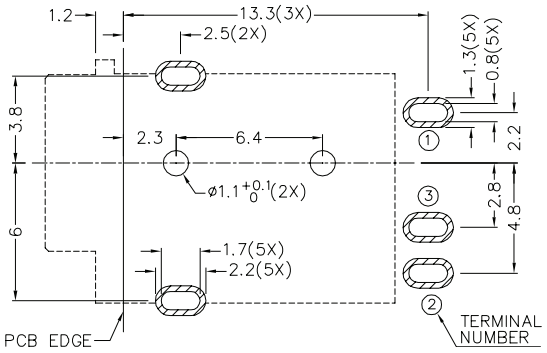
units: mm
tolerance:
X.X ±0.2 mm
X.XX ±0.10 mm
X.XXX ±0.050 mm
PCB: ±0.05 mm



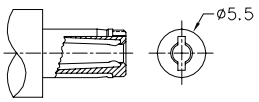
	MATERIAL	PLATING
terminal 1	brass	gold flash
terminal 2	copper alloy	gold flash
terminal 3	brass	gold flash
shield	brass	nickel
insulator	PA10T	
o-ring (OR-70)	silicone	



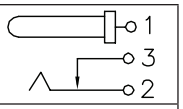




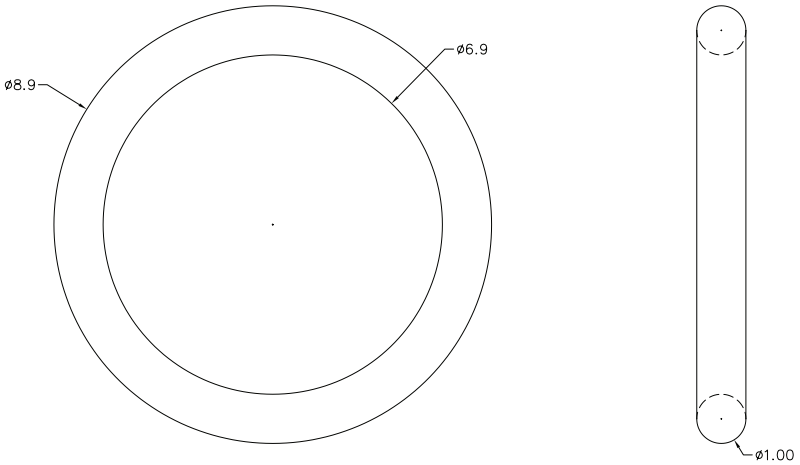
Recommended PCB Layout
Top View



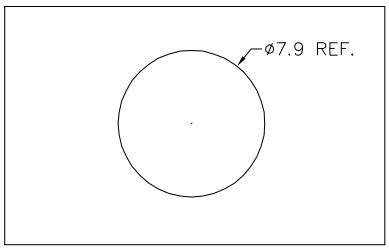
MATING PLUG
Jack Insertion Depth: 10 mm

SCHEMATIC	
Model	PJ-001AH-67
Center Pin	Ø2.0 mm

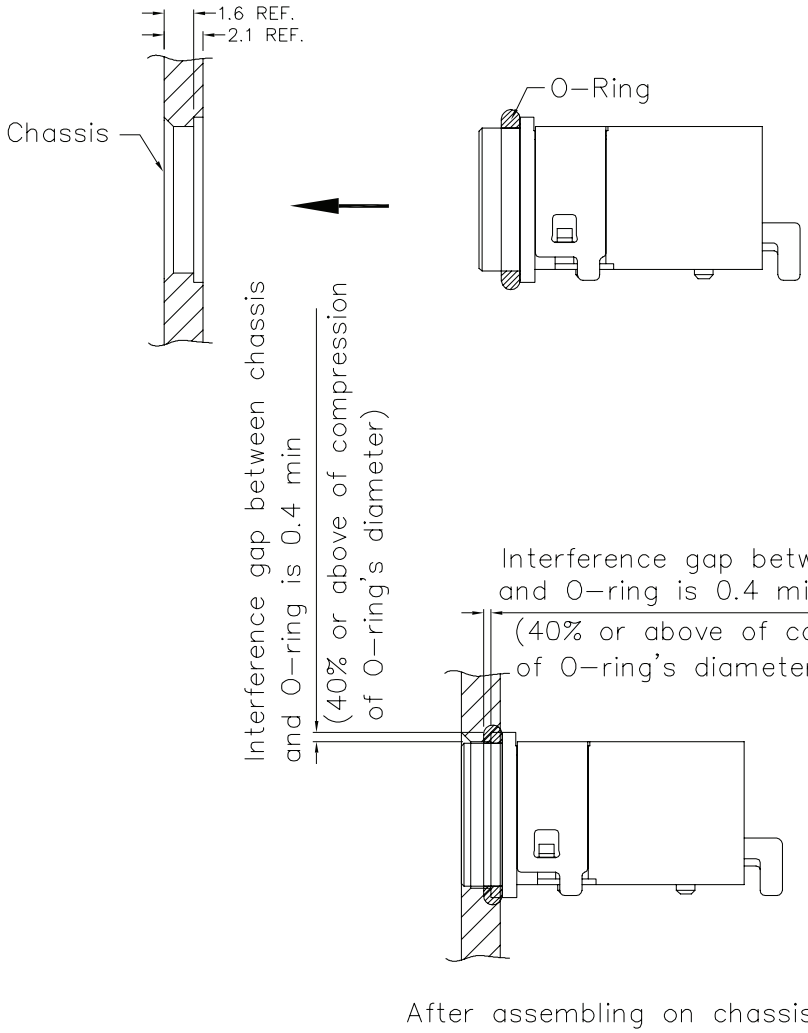
O-ring (P/N: OR-70)



ASSEMBLY REFERENCE

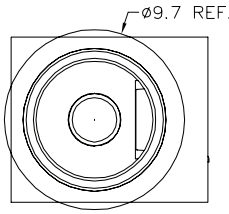


Top View



After assembling on chassis

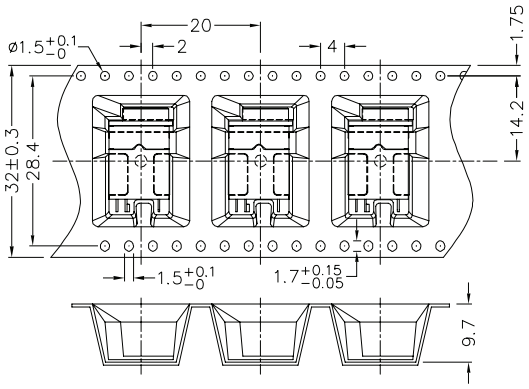
O-ring size
(uncompresssed)

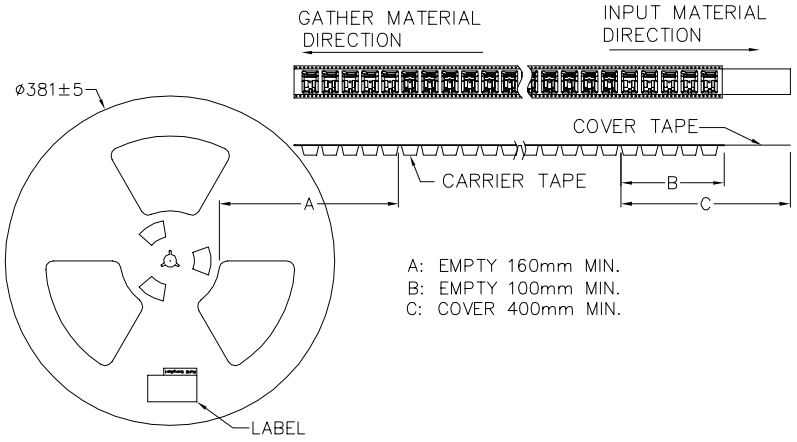


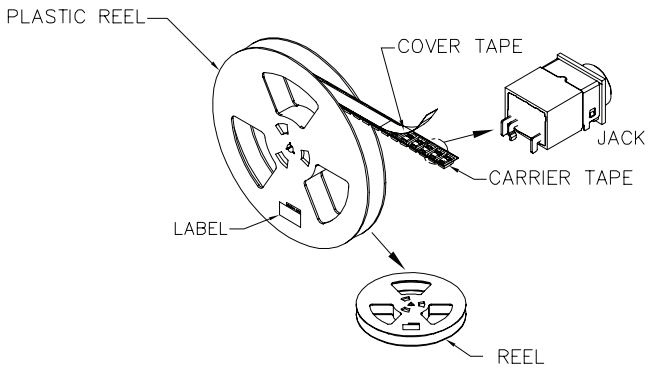
PACKAGING

units: mm

Reel Size: Ø381 mm
Reel QTY: 450 pcs per reel







REVISION HISTORY

rev.	description	date
1.0	initial release	01/29/2019
1.01	brand update	10/30/2019
1.02	added o-ring p/n	04/07/2022
1.03	logo, datasheet style update	08/05/2022
1.04	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

Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

sameskydevices.com