CUI DEVICES

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

FEATURES

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



SPECIFICATIONS

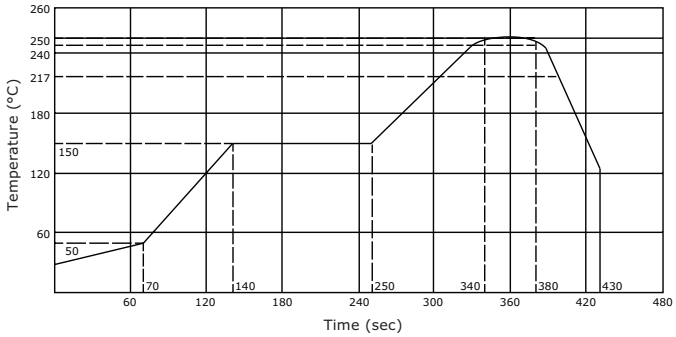
parameter	conditions/description	min	typ	max	units
rated input voltage			24		Vdc
rated input current				5	A
contact resistance[1]	between terminal and mating plug between terminal in a closed circuit			50 30	mΩ mΩ
insulation resistance	at 500 Vdc between adjacent contacts	100			MΩ
voltage withstand	for 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

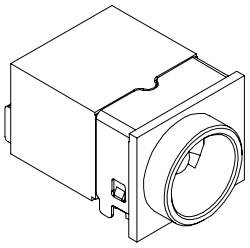
parameter	conditions/description	min	typ	max	units
reel storage	at relative humidity <80%			40	°C
reflow soldering[3]	see reflow profile	245	250	255	°C
drying conditions[4]	parts in reel: bake at 40°C ±5°C for 72 hours parts removed from reel: bake at 40°C ±5°C for 10 hours				

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.

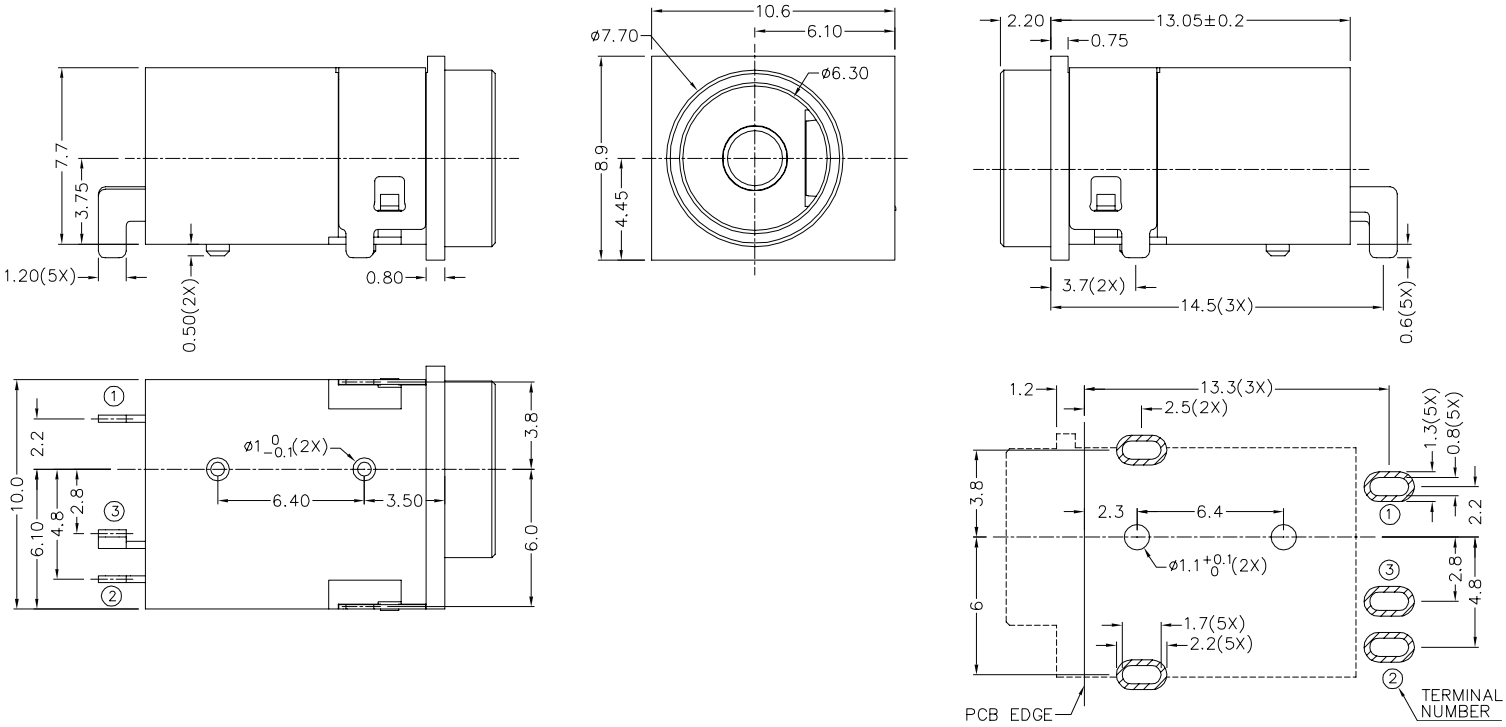


MECHANICAL DRAWING

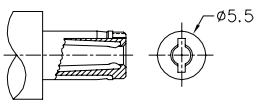
units: mm
tolerance:
X.X ±0.2 mm
X.XX ±0.10 mm
X.XXX ±0.050 mm
PCB: ±0.05 mm



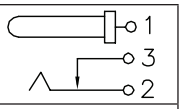
	MATERIAL	PLATING
terminal 1	brass	gold flash
terminal 2	copper alloy	gold flash
terminal 3	brass	gold flash
shield	brass	nickel
insulator	PA10T	
o-ring	silicone	



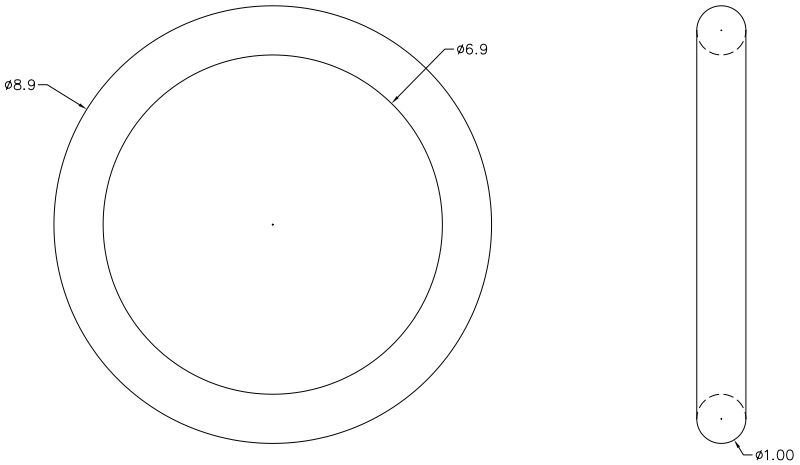
Recommended PCB Layout
Top View



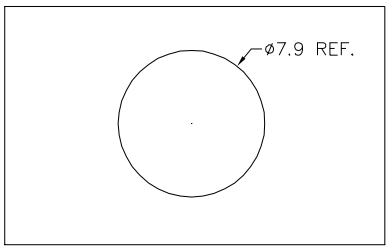
MATING PLUG
Jack Insertion Depth: 10 mm

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

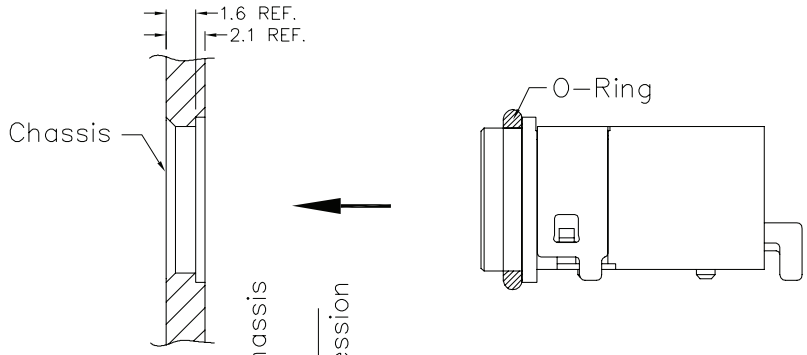
O-ring

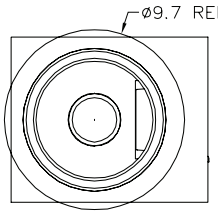


ASSEMBLY REFERENCE

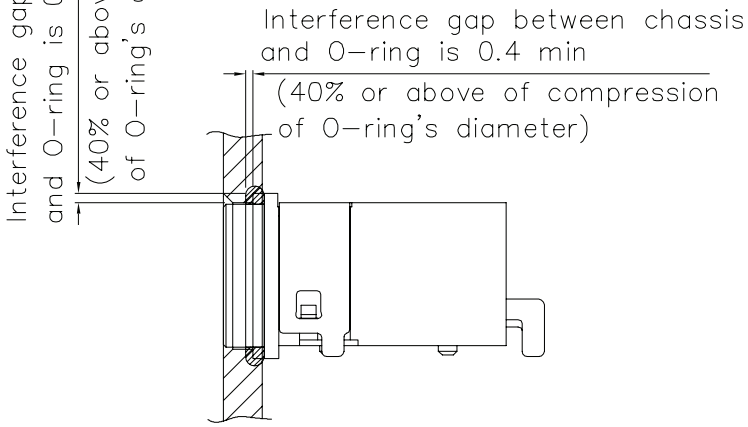


Top View





O-ring size
(uncompresssed)

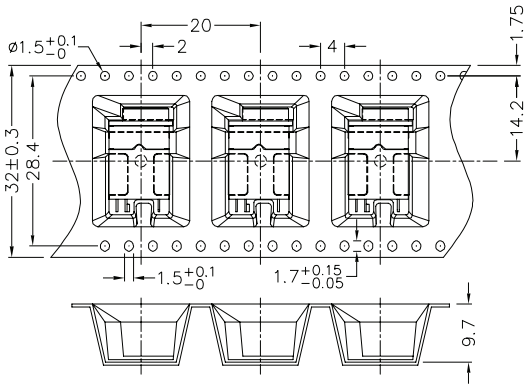


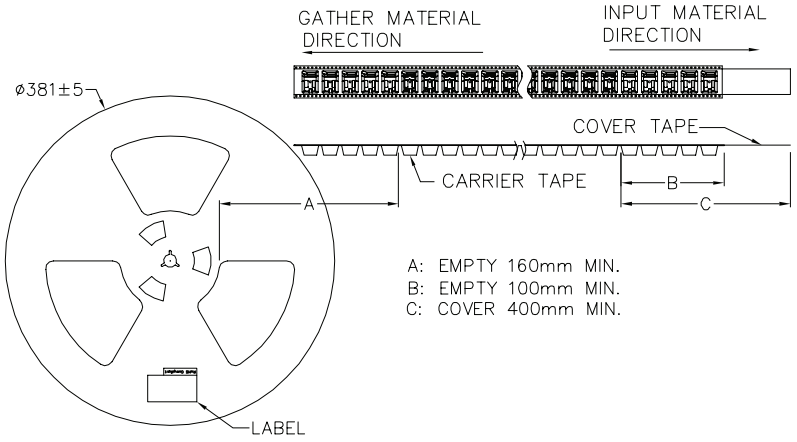
After assembling on chassis

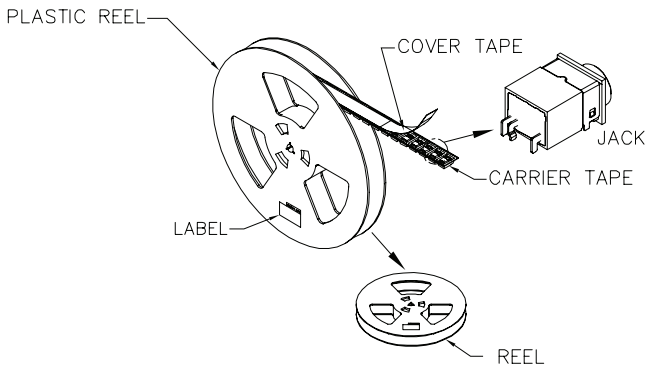
PACKAGING

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

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

CUI DEVICES

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