CUI Devices is now Same Sky! Learn More

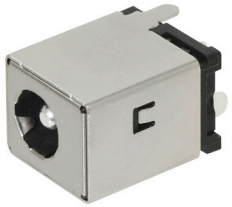
same sky

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

MODEL: PJ-090BH | DESCRIPTION: DC POWER JACK

FEATURES

- 2.5 mm center pin
- 5 A rating
- shielded
- through hole
- vertical orientation
- 1 switch



RoHS

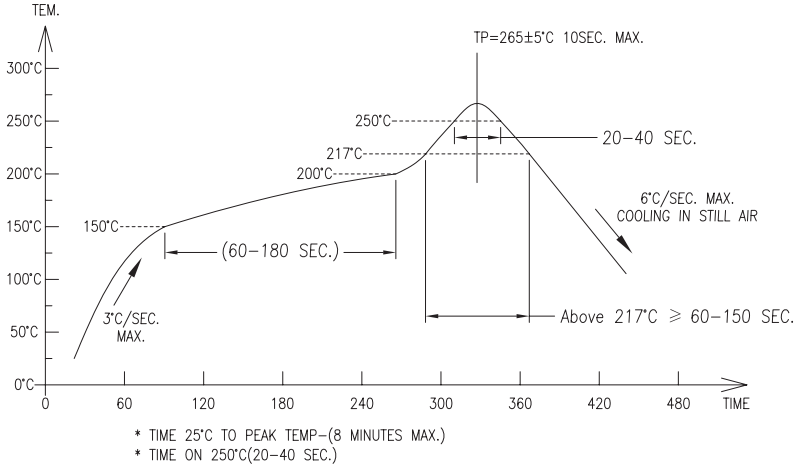
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated input voltage			24		Vdc
rated input current				5.0	A
contact resistance				30	mΩ
insulation resistance	at 500 Vdc	100			MΩ
voltage withstand	for 1 minute			500	Vac
insertion/withdrawal force		0.3		3	kg
operating temperature		-25		85	°C
life			5,000		cycles
flammability rating	UL94V-0				
RoHS	yes				

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
wave soldering	dipped in solder pot for 5 ±0.5 seconds	255	260	265	°C
reel storage	-5~35°C, 25~80% humidity reel opened: use within 1 month reel unopened: use within 6 months				
reflow soldering	see reflow profile	260	265	270	°C

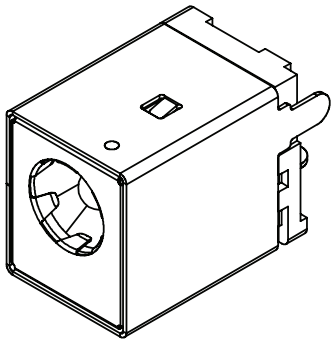
Note: 1. Same Sky recommends usage of the product within 2 hours after T&R is opened. After 6 hours, Same Sky recommends drying the parts prior to use.



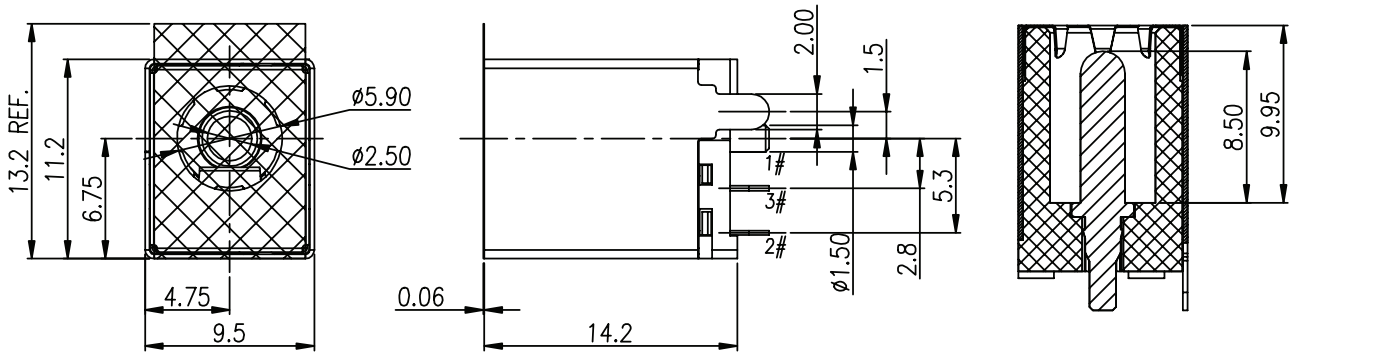
* TIME 25°C TO PEAK TEMP–(8 MINUTES MAX.)
* TIME ON 250°C(20–40 SEC.)

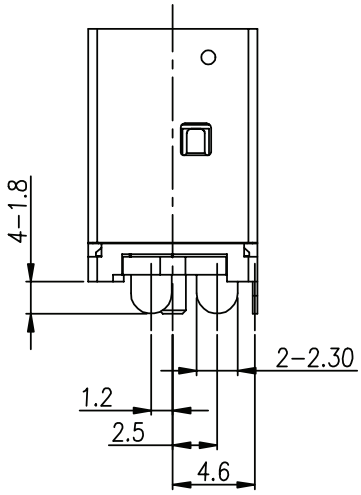
MECHANICAL DRAWING

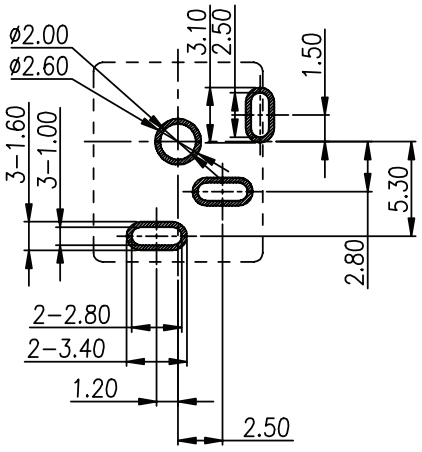
units: mm
tolerance:
X. ±0.50 mm
X.X ±0.30 mm
X.XX ±0.20 mm
PCB: ±0.05 mm
unless otherwise specified



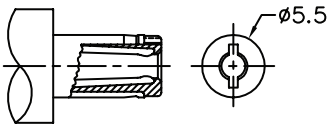
DESCRIPTION	MATERIAL	PLATING/COLOR
center pin	copper	silver
terminal 1	copper	silver
terminal 2	copper alloy	silver
terminal 3	brass	silver
shield A	brass	nickel
shield B	stainless steel	
mylar	polymide	
insulator	PA10T (UL94V-0)	black



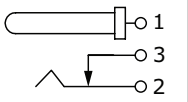




Recommended PCB Layout
Top View



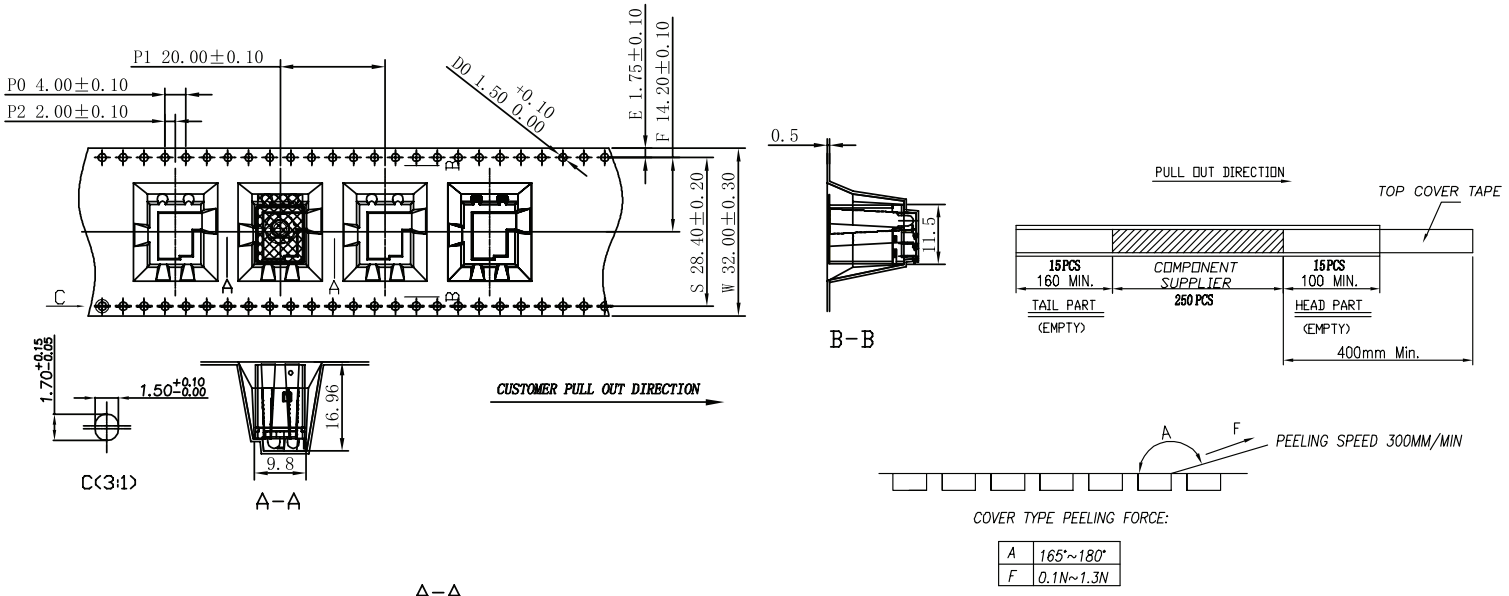
MATING PLUG
Jack Insertion Depth: 9.95 mm

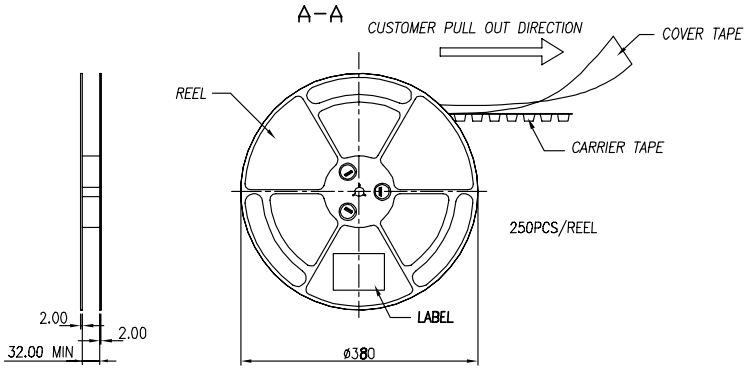
SCHEMATIC	
Model	PJ-090BH
Center Pin	Ø2.5 mm

PACKAGING

units: mm

Reel Size: Ø380 mm
Reel QTY: 250 pcs per reel





REVISION HISTORY

rev.	description	date
1.0	initial release	12/13/2018
1.01	updated datasheet	08/16/2019
1.02	brand update	10/31/2019
1.03	logo, datasheet style update	08/05/2022
1.04	product reengineered for improved manufacturability and production yield, see PCN for details	03/08/2024
1.05	CUI Devices rebranded to Same Sky	09/12/2024
1.06	changed reel quantity to 250 pieces	03/26/2025

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.

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