



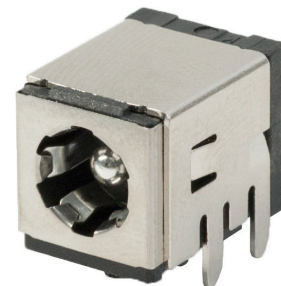
**THE DATASHEET OF
PJ-082BH**



MODEL: PJ-082BH | **DESCRIPTION:** DC POWER JACK

FEATURES

- 10 A current rating
- shielded
- no internal switch

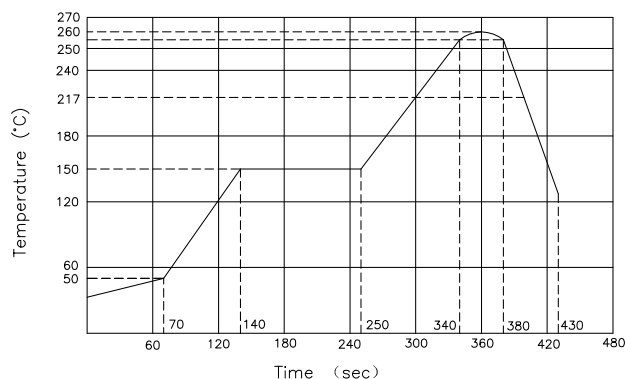

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated input voltage			36		Vdc
rated input current				10	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
reel storage	10~30°C, <70% humidity				°C
reflow soldering ¹	see reflow profile	255	260		°C
drying conditions ²	parts in reel: bake at 110°C for 4 hours parts removed from reel: bake at 110°C for 4 hours				

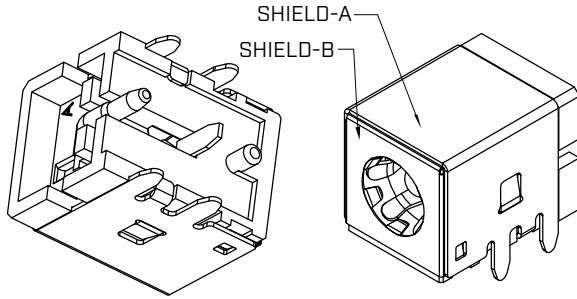
Note: 1. CUI Devices recommends to solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.
2. When exceeding floor life by >240 hours.



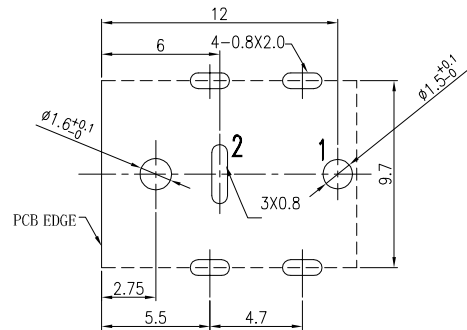
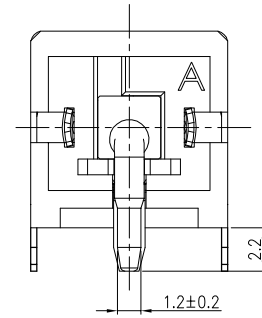
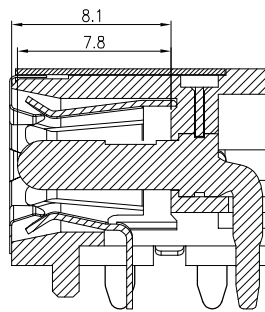
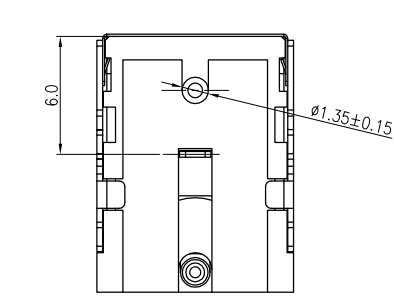
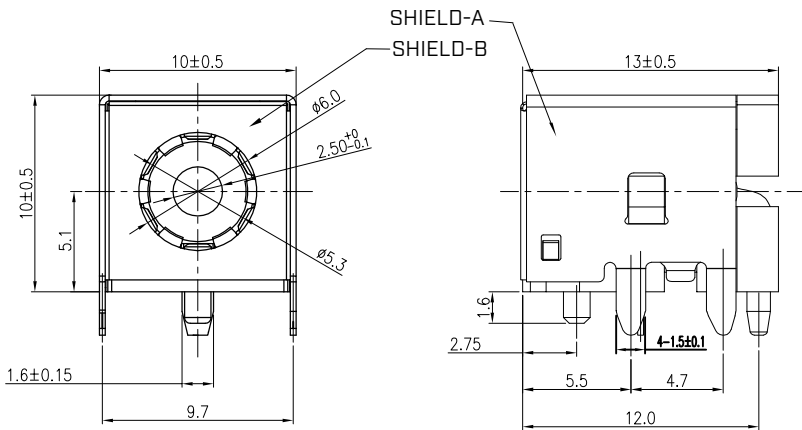
MECHANICAL DRAWING

units: mm

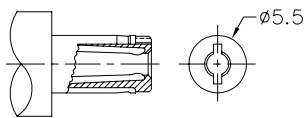
tolerance: ± 0.3 mm
 PCB: ± 0.05 mm
 unless otherwise specified
 PCB thickness: 1.6 mm



DESCRIPTION	MATERIAL	PLATING/COLOR
center pin	zinc alloy	nickel
terminal 1	zinc alloy	nickel
terminal 2	C5191 t=0.30	silver
stopper	C2680 t=0.40	
shield A	SPCC t=0.30	nickel
shield B	SUS 301 t=0.10	
housing	PA9T (UL94V-0)	black



Recommended PCB Layout
Top View



MATING PLUG
 Jack Insertion Depth: 8.1 mm

Schematic	1 2
Model	Center Pin
PJ-082BH	$\varnothing 2.5$ mm

REVISION HISTORY

rev.	description	date
1.0	initial release	03/23/2012
1.01	increased voltage rating	05/18/2016
1.02	increased voltage rating, added storage and drying conditions, and tape and reel packaging details	10/06/2017
1.03	brand update	10/31/2019
1.04	product reengineered for improved manufacturability and production yield, see PCN for details	01/09/2023
1.05	product reengineered for improved manufacturability and production yield, see PCN for details	05/15/2024

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



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

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