CUDEVICES

MODEL: PJ-050B | **DESCRIPTION:** DC POWER JACK

FEATURES

- 2.5 mm center pin
- 2.5 A rating
- right-angle orientation
- through hole
- pick-n-place top



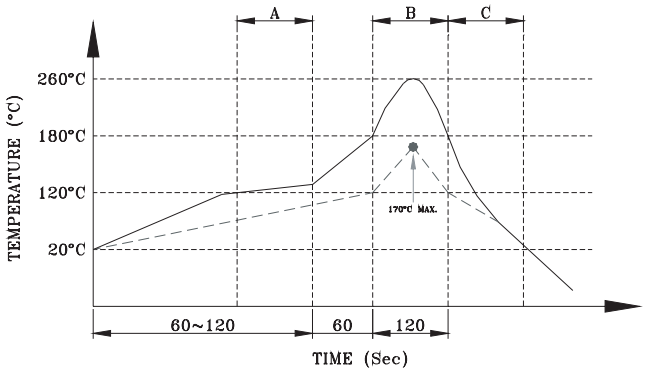
RoHS

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated input voltage			24		Vdc
rated input current				2.5	A
contact resistance	between terminal and mating plug between terminal in a closed circuit			100 30	mΩ 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	for max 5 seconds	255	260	265	°C

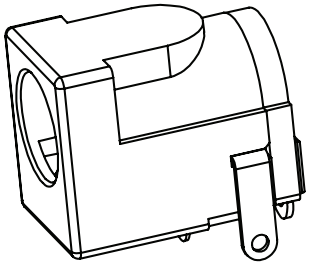


A. Preheating
B. Soldering
C. Cooling

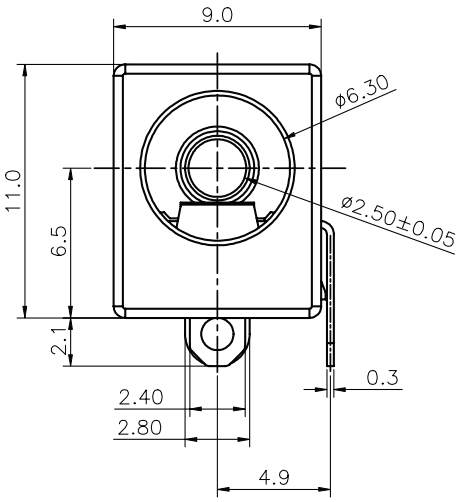
——— Pin Temperature
– – – – Component Temperature

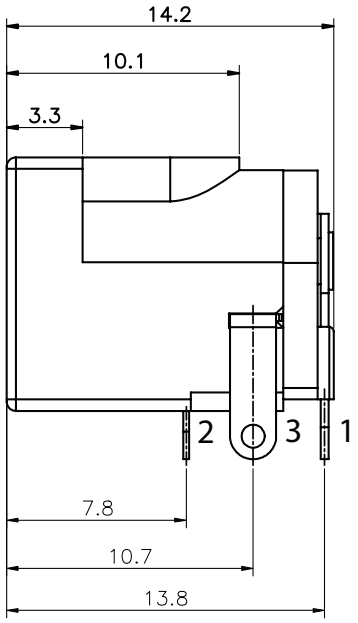
MECHANICAL DRAWING

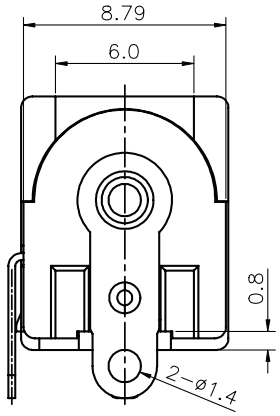
units: mm
tolerance:
X.X ±0.20 mm
X.XX ±0.15 mm
X.XXX ±0.10 mm
PCB: ±0.05 mm
unless otherwise specified

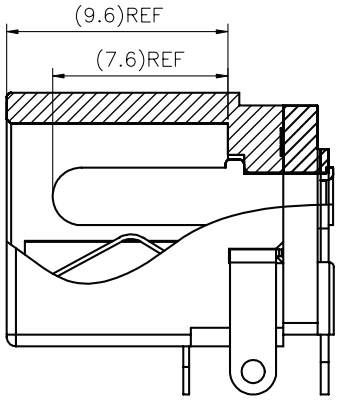


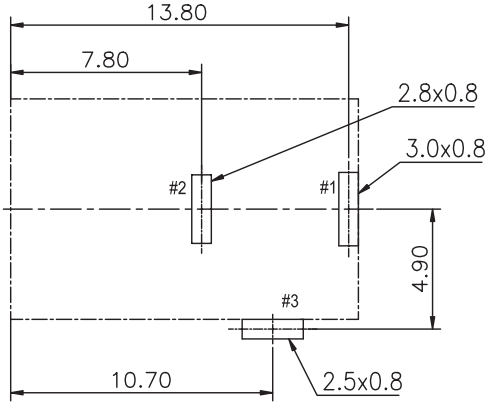
DESCRIPTION	MATERIAL	PLATING/COLOR
center pin	copper alloy (H65)	nickel
terminal 1	C2680 t=0.35	nickel-silver
terminal 2	C5210 t=0.25	nickel-silver
terminal 3	C2680 t=0.30	nickel-silver
cover	PA9T (UL94V-0)	black
housing	PA9T (UL94V-0)	black



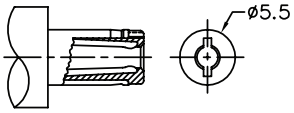




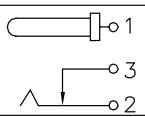




Recommended PCB Layout
Top View



MATING PLUG
Jack Insertion Depth: 9.6 mm

SCHEMATIC	
Model	PJ-050B
Center Pin	Ø2.5 mm

REVISION HISTORY

rev.	description	date
1.0	initial release	07/30/2007
1.01	applied new spec template	10/21/2013
1.02	increased voltage rating	04/14/2016
1.03	increased operating temperature range	11/02/2017
1.04	brand update	11/05/2019
1.05	logo, datasheet style update	08/05/2022
1.06	product reengineered for improved manufacturability and production yield, see PCN for details	03/01/2023

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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