

date 03/01/2023 **page** 1 of 3

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



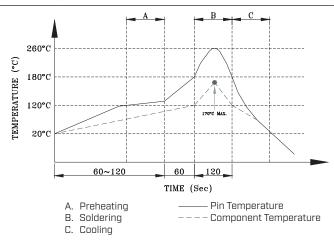


SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated input voltage			24		Vdc
rated input current				2.5	А
contact resistance	between terminal and mating plug between terminal in a closed circuit			100 30	$m\Omega$
insulation resistance	at 500 Vdc	100			МΩ
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-O				
RoHS	Ves				

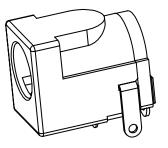
SOLDERABILITY

parameter	conditions/description	min	typ	max	units
wave soldering	for max 5 seconds	255	260	265	°C

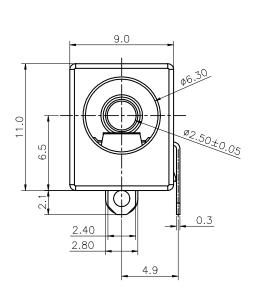


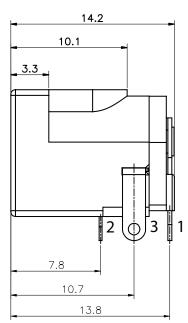
MECHANICAL DRAWING

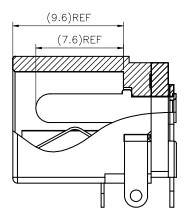
units: mm tolerance: X.X ±0.20 mm X.XX ±0.15 mm X.XXX ±0.10 mm PCB: ±0.05 mm unless otherwise specified

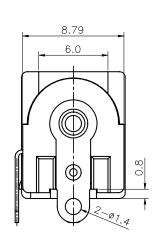


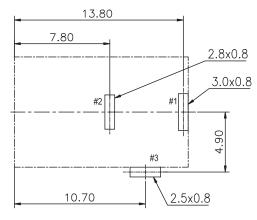
DESCRIPTION	MATERIAL	PLATING/COLOR
center pin	copper alloy (H65)	nickel
terminal 1	C2680 t=0.35	nickel-silver
terminal 2	C5210 t=0.25	nickel-silver
terminal 3	C2680 t=0.30	nickel-silver
cover	PA9T (UL94V-0)	black
housing	PA9T (UL94V-0)	black



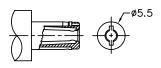








Recommended PCB Layout Top View



MATING PLUG Jack Insertion Depth: 9.6 mm

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SCHEMATIC	┌ ──○ 3
	<u> </u>
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.



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