

Additional Resources: Product Page | PCB Footprint

date 08/05/2024

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MODEL: PJ-002A | DESCRIPTION: DC POWER JACK

FEATURES

- 2.0 mm center pin
- 2.5 A rating
- right-angle orientation
- through hole





SPECIFICATIONS

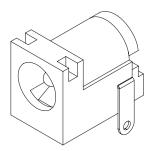
parameter	conditions/description	min	typ	max	units
rated input voltage			24		Vdc
rated input current				2.5	А
contact resistance				30	mΩ
insulation resistance	at 500 Vdc	100			МΩ
voltage withstand	for 1 minute			500	Vac
insertion/withdrawal force		0.3		3	kg
terminal strength	any direction for 10 seconds			500	g
operating temperature		-40		85	°C
life			5,000		cycles
flammability rating	UL94V-0				
RoHS	yes				

SOLDERABILITY

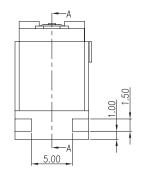
parameter	conditions/description	min	typ	max	units
wave soldering	dipped in solder pot for 5 ±0.5 seconds	255	260	265	°C

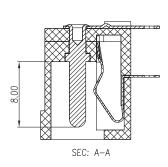
MECHANICAL DRAWING

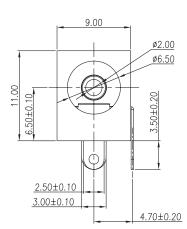
units: mm tolerance: X. ±0.50 mm X.X ±0.30 mm X.XX ±0.20 mm PCB: ±0.05 mm unless otherwise specified

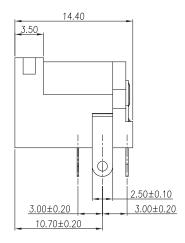


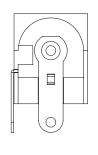
DESCRIPTION	MATERIAL	PLATING/COLOR
center pin	copper	nickel
terminal 1	brass	tin
terminal 2	copper alloy	tin
terminal 3	brass	tin
housing	PBT (UL94V-0)	black
cover	PBT (UL94V-0)	black

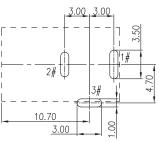




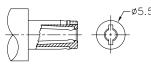








Recommended PCB Layout Top View



MATING PLUG Jack Insertion Depth: 9.5 mm

SCHEMATIC	-01 -03 -02
Model	PJ-002A
Center Pin	Ø2.0 mm

REVISION HISTORY

rev.	description	date	
1.0	initial release	04/17/2006	
1.01	changed pin thickness layout	08/31/2006	
1.02	applied new spec template	01/08/2015	
1.03	increased voltage rating	04/08/2016	
1.04	updated datasheet	12/18/2018	
1.05	brand update	10/30/2019	
1.06	logo, datasheet style update	08/05/2022	
1.07	product reengineered for improved manufacturability and production yield, see PCN for details	08/19/2022	
1.08	changed minimum operating temperature	08/05/2024	

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



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