

**MODEL:** PJ-042 | **DESCRIPTION:** DC POWER JACK

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**FEATURES**

- 1.65 mm center pin
- 2.5 A rating
- right angle orientation
- through hole with panel slots
- kinked pins

**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			50	mΩ
	between terminal in a closed circuit			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

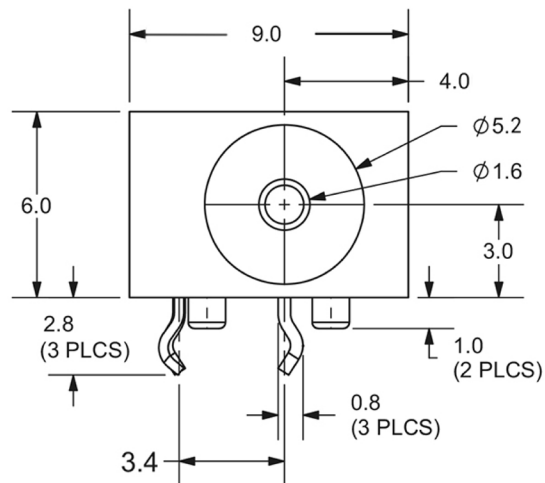
## MECHANICAL DRAWING

units: mm

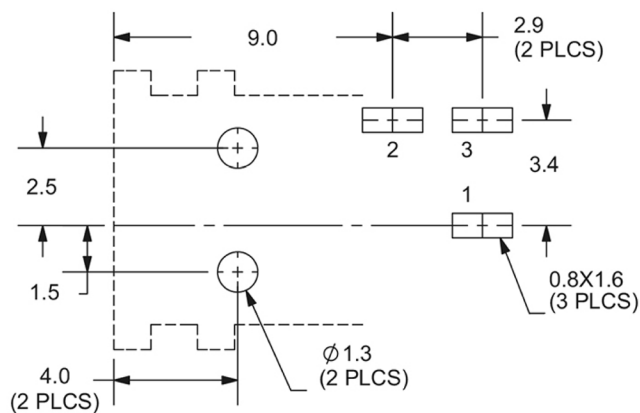
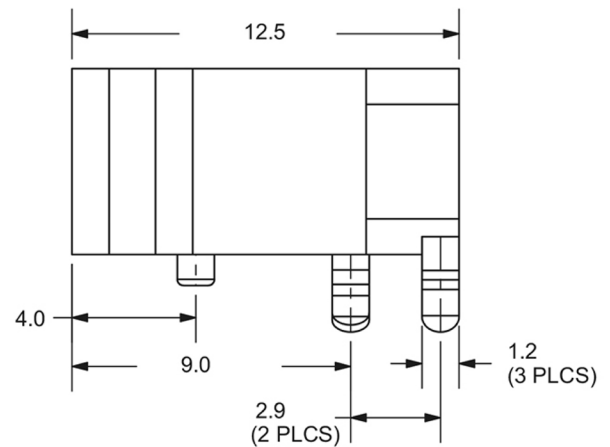
tolerance:

X.X  $\pm 0.20$  mmX.XX  $\pm 0.10$  mmX.XXX  $\pm 0.05$  mm

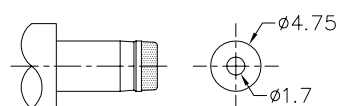
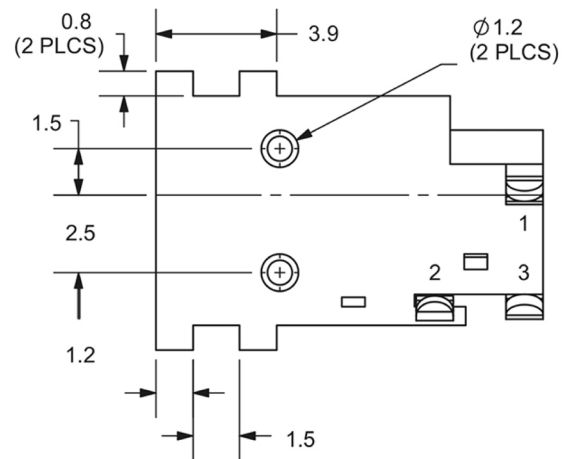
unless otherwise specified



DESCRIPTION	MATERIAL	PLATING/COLOR
center pin	brass	tin
terminal 1	brass	tin
terminal 2	phosphor bronze t=0.3	tin
terminal 3	brass t=0.3	tin
housing	PA66 [UL94V-0]	black



Recommended PCB Layout  
Top View



MATING PLUG  
Jack Insertion Depth: 7.8 mm

SCHEMATIC	
Model	PJ-042
Center Pin	$\phi 1.65$ mm

## REVISION HISTORY

rev.	description	date
1.0	initial release	07/30/2007
1.01	applied new spec template	01/14/2015
1.02	increased voltage rating	04/14/2016
1.03	logo, datasheet style update	08/05/2022
1.04	product reengineered for improved manufacturability and production yield, see PCN for details	07/07/2023

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



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