

**date** 07/28/2017

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MODEL: PJ1-021-SMT-TR **DESCRIPTION:** DC POWER JACK

#### **FEATURES**

- 1.65mm center pin
- 5 A rating
- right angle orientation
- surface mount (SMT)
- internal switch





#### **SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
rated input voltage			24		Vdc
rated input current				5	А
contact resistance <sup>1</sup>	between terminal and mating plug between terminal in a closed circuit			50 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	at a rate of 24 cycles/minute		5,000		cycles
flammability rating	UL94V-0				
RoHS	2011/65/EU				

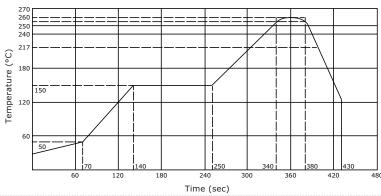
- 1. When measured at a current of less than 100 mA/1 kHz 2. All specifications measured at  $10\sim35^{\circ}$ C, humidity at  $45\sim85\%$ , under standard atmospheric pressure, unless otherwise noted.

# **SOLDERABILITY**

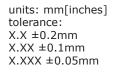
parameter	conditions/description	min	typ	max	units
reel storage	at relative humidity <80%			40	°C
reflow soldering <sup>3</sup>	see reflow profile	255	260	265	°C
drying conditions <sup>4</sup>	parts in reel: bake at $40^{\circ}$ C $\pm 5^{\circ}$ C for 72 hours parts removed from reel: bake at $40^{\circ}$ C $\pm 5^{\circ}$ C for 10 hours				

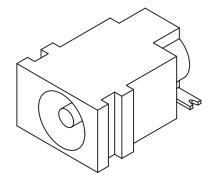
Note:

- 3. Must reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.
- 4. When exceeding floor life by >72 hours.

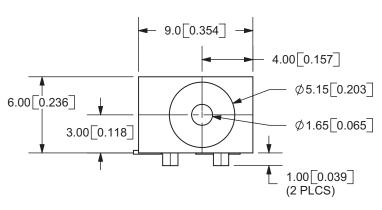


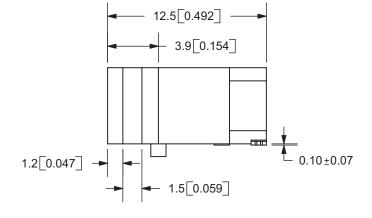
### **MECHANICAL DRAWING**

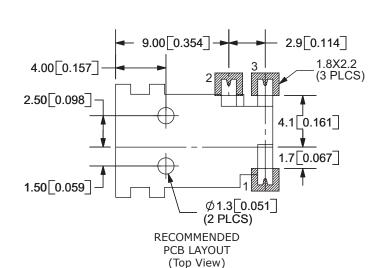


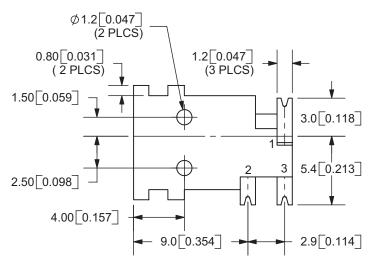


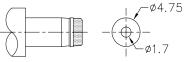
	MATERIAL	PLATING
center pin	brass	silver
terminal 1	brass	silver
terminal 2	copper alloy	silver
terminal 3	brass	silver
plastic	PA6T or equivalent	











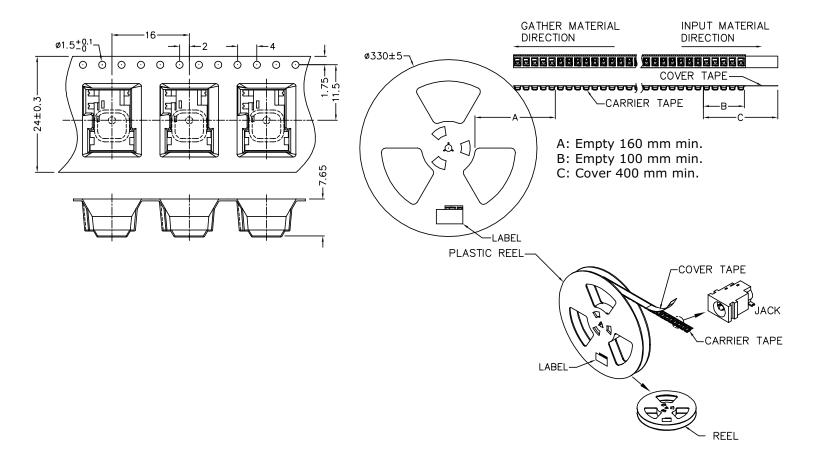
MATING PLUG Jack Insertion Depth: 8.0 mm

SCHEMATIC	$ \begin{array}{c c}  & 3 \\  & 3 \\  & 2 \end{array} $
Model	PJ1-021-SMT
Center Pin	Ø1.65 mm

## **PACKAGING**

units: mm

Reel Size: Ø330 mm Reel QTY: 500 pcs per reel



#### **REVISION HISTORY**

rev.	description	date
1.0	initial release	10/20/2005
1.01	changed housing material to PA6T from PBT	01/10/2006
1.02	added TR package option and jack insertion depth	11/07/2012
1.03	applied new spec template	08/22/2013
1.04	increased voltage rating	04/08/2016
1.05	added storage and drying conditions, and tape and reel packaging details	07/28/2017

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



Headquarters 20050 SW 112th Ave. Tualatin, OR 97062 800.275.4899

Fax 503.612.2383 cui.com techsupport@cui.com

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