

date 10/17/2017

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MODEL: PJ-036AH-SMT-TR **DESCRIPTION:** DC POWER JACK

#### **FEATURES**

- 2.0mm center pin
- 5.0 A rating
- horizontal orientation
- surface mount (SMT)





### **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				

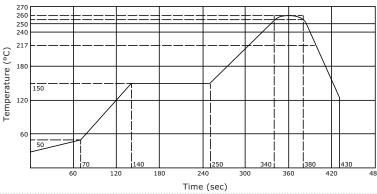
- 1. When measured at a current of less than 100 mA/1 kHz 2. All specifications measured at  $10\sim35^{\circ}$ C, humidity at  $45\sim85\%$ , under standard atmospheric pressure, unless otherwise noted.

## **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				

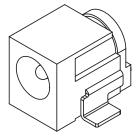
Note:

- 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.

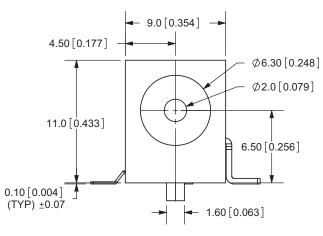


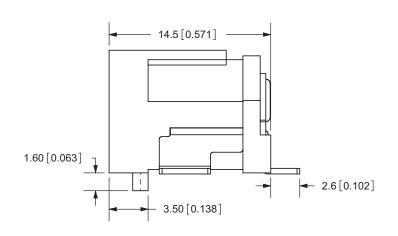
# **MECHANICAL DRAWING**

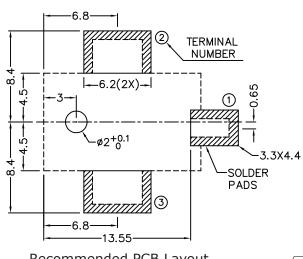
units: mm[inches] tolerance:  $X.X \pm 0.2mm$  $X.XX \pm 0.1mm$  $X.XXX \pm 0.05mm$ PCB: ±0.05 mm



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

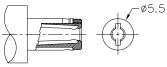






6.8 [0.268] (2 PLCS) 15.20 [0.598] 3 ±0.30 1.70 [0.067] 0.7[0.028] 2 4.60 [0.181] (2 PLCS)

Recommended PCB Layout Top View



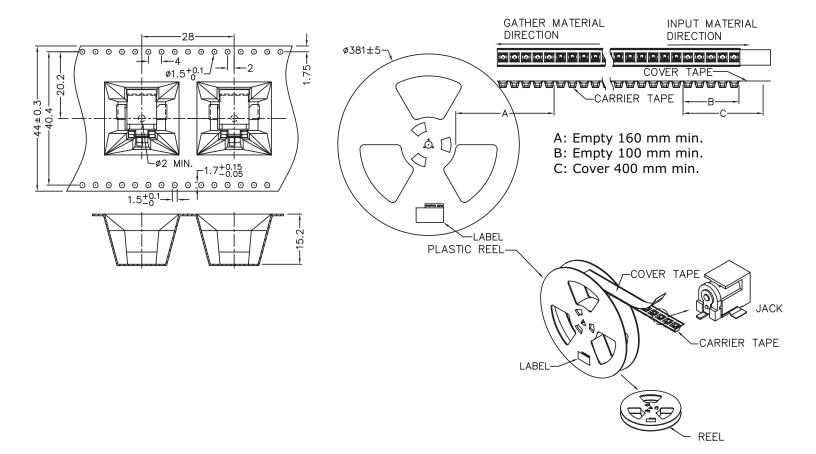
MATING PLUG Jack Insertion Depth: 9.15 mm

SCHEMATIC	01 03 02
Model	PJ-036AH-SMT
Center Pin	Ø2.0 mm

## **PACKAGING**

units: mm

Reel Size: Ø381 mm Reel QTY: 200 pcs per reel



## **REVISION HISTORY**

rev.	description	date	
1.0	initial release	02/02/2007	
1.01	added TR package option	11/07/2012	
1.02	applied new spec template, updated center pin material	08/21/2013	
1.03	increased voltage rating	04/14/2016	
1.04	added storage and drying conditions, and tape and reel packaging details	10/17/2017	

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



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