

07/26/2017

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MODEL: PJ-002BH-SMT-TR **DESCRIPTION:** DC POWER JACK

FEATURES

- •designed for pick and place
- •5 A current rating
- narrow footprint





SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated input voltage			24		Vdc
rated input current				5.0	А
contact resistance ¹	between terminal and mating plug between terminal in a closed circuit			50 30	mΩ
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	at a rate of 24 cycles/minute		5,000		cycles
flammability rating	UL94V-0				
RoHS	2011/65/EU				

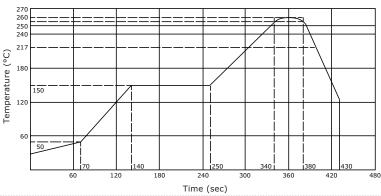
- 1. When measured at a current of less than 100 mA/1 kHz 2. All specifications measured at $10\sim35^{\circ}$ C, humidity at $45\sim85\%$, under standard atmospheric pressure, unless otherwise noted.

SOLDERABILITY

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

Note:

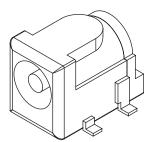
- 3. Must reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.
- 4. When exceeding floor life by >72 hours.



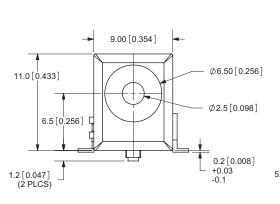
MECHANICAL DRAWING

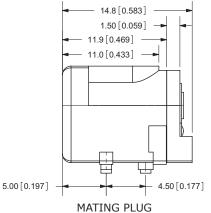
units: mm[inches]

TOLERANCE: $X.X \pm 0.2mm$ $X.XX \pm 0.1mm$ $X.XXX \pm 0.05mm$ PCB: ±0.05 mm



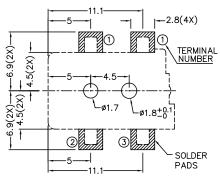
	MATERIAL	PLATING
center pin	copper	nickel
terminal 1	brass	silver
terminal 2	copper alloy	silver
terminal 3	brass	silver
plastic	PA6T or equivalent	





11.1 [0.437] 6.1 [0.240] Ø1.7[0.067] 12.6 [0.496] 1.500X1.200 9.5 [0.374] 1.5 [0.059]

Jack Insertion Depth: 8.9mm



Recommended PCB Layout Top View



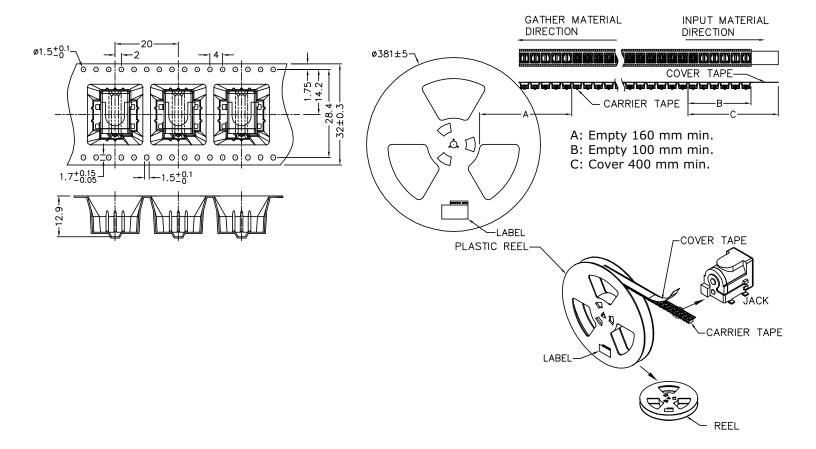
Jack Insertion Depth: 8.9mm

SCHEMATIC	○1 ○3 ○2
Model	PJ-002BH-SMT-TR
Center Pin	Ø2.5 mm

PACKAGING

units: mm

Reel Size: Ø381 mm Reel QTY: 350 pcs per reel



REVISION HISTORY

rev.	description	date
1.0	initial release	10/19/2005
1.01	updated operating temperature	06/20/2011
1.02	updated spec, added jack insertion depth	10/12/2012
1.03	added TR package option	11/28/2012
1.04	updated spec	07/03/2013
1.05	increased voltage rating	05/17/2016
1.06	added storage and drying conditions, and tape and reel packaging details	07/26/2017

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

CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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