

**SERIES:** PJ-002BH-SMT | **DESCRIPTION:** DC POWER CONNECTOR

**FEATURES**

- mid mount for low profile applications
- dual tip contact configuration
- dual ring contact configuration


**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
rated input voltage			24		Vdc
rated input current				5	A
contact resistance	between terminal and mating plug			50	mΩ
	after life test, between terminal and mating plug			100	mΩ
	between terminal in a closed circuit <sup>1</sup>			30	mΩ
	after life test, between terminal in a closed circuit <sup>1</sup>			60	mΩ
insulation resistance	at 500 Vdc	100			MΩ
	at 500 Vdc, after environmental tests	50			MΩ
voltage withstand	at 50/60Hz for 1 minute			500	Vac
insertion/withdrawl force		0.3		3	kg
	after life test	0.2		2	kg
terminal strength	any direction for 10 seconds			500	g
operating temperature		-40		85	°C

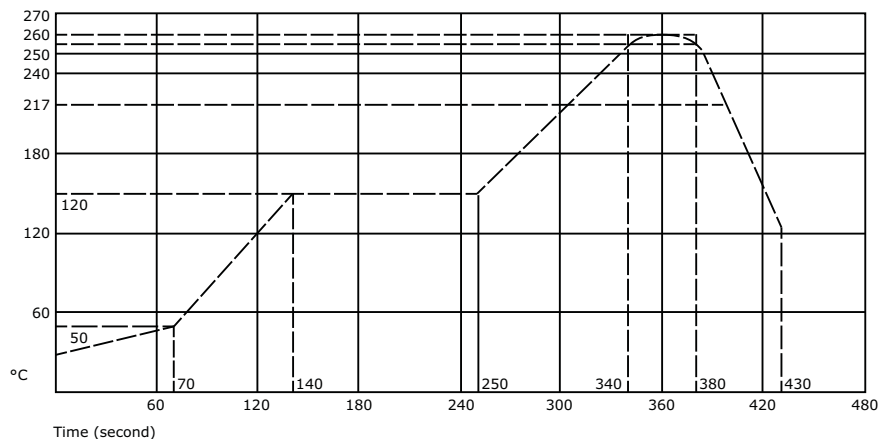
Notes: 1. When measured at a current of less than 100 mA / 1 kHz

**TESTING**

parameter	conditions/description	min	typ	max	units
solderability	95% solder coverage on lead, neutral flux, 2 sec.	250	255	260	°C
reflow soldering	see graph				
life	at 24 insertion/withdrawl cycles per minute		5,000		cycles
heat	the relative test before and after testing should comply with the Insulation Resistance section	83	85	87	°C
			96	50	% RH hours
cold	the relative test before and after testing should comply with the Insulation Resistance section	33	35	37	°C
			96		hours
humidity	the relative test before and after testing should comply with the Insulation Resistance section	38	40	42	°C
			96		hours % RH
		90		95	

Notes: All measurements and test shall be made at a temperature 10°C to 35°C with a relative humidity of 45% RH to 85% RH under the standard atmospheric pressure unless otherwise specified.

## REFLOW SOLDERING

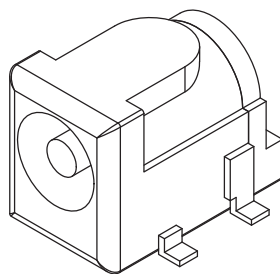


## MECHANICAL DRAWING

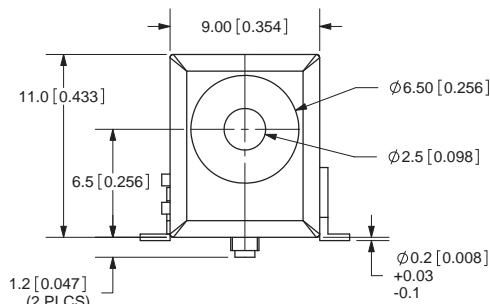
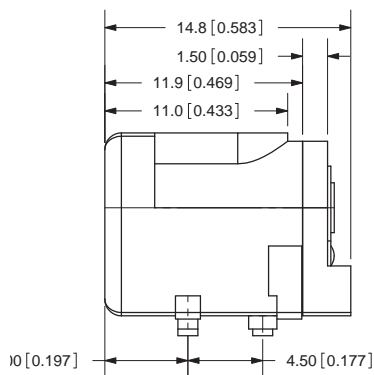
units: mm[inches]

MODEL NO.	PJ-002BH-SMT
SCHEMATIC	

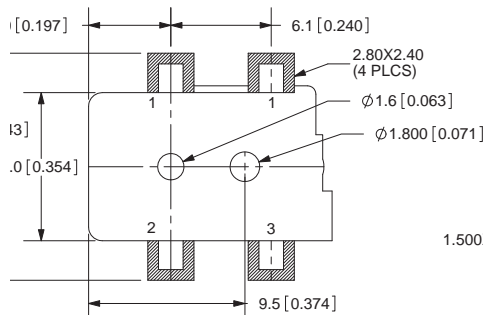
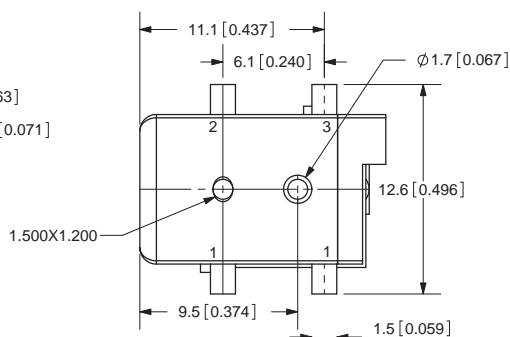
CENTER PIN DIAMETER 2.5mm Dia.



	MATERIAL	PLATING
centre pin	brass	nickel plated
terminal 1	brass	silver plated
terminal 2	copper alloy	silver plated
terminal 3	brass	silver plated
plastic	PA6T	



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

PCB LAYOUT  
TOP VIEW

## REVISION HISTORY

rev.	description	date
1.0	initial release	10/19/2005
1.01	updated operating temperature	6/20/2011

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



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

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