

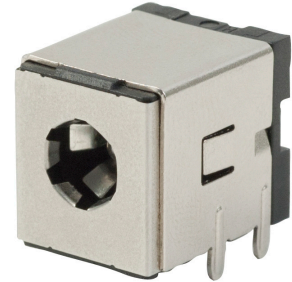

**CUI INC<sup>®</sup>**
**date** 10/06/2017

**page** 1 of 4

**MODEL:** PJ-080BH | **DESCRIPTION:** DC POWER JACK

**FEATURES**

- 10 A current rating
- shielded
- no internal switch


**SPECIFICATIONS**

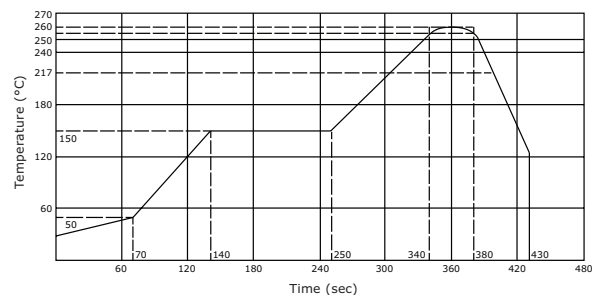
parameter	conditions/description	min	typ	max	units
rated input voltage			36		Vdc
rated input current				10	A
contact resistance <sup>1</sup>	between terminal and mating plug between terminal in a closed circuit			50 30	mΩ mΩ
insulation resistance	at 500 Vdc	100			MΩ
voltage withstand	at 50/60Hz for 1 minute			500	Vac
insertion/withdrawal force		0.3		3	kg
terminal strength	any direction for 10 seconds			500	g
operating temperature		-25		85	°C
life	at a rate of 24 cycles/minute		5,000		cycles
flammability rating	UL94V-0				
RoHS	2011/65/EU				

Note: 1. When measured at a current of less than 100 mA/1 kHz  
2. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

**SOLDERABILITY**

parameter	conditions/description	min	typ	max	units
wave soldering	dipped in solder pot for 5 ±0.5 seconds at	255	260	265	°C
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°C ±5°C for 72 hours parts removed from reel: bake at 40°C ±5°C for 10 hours				

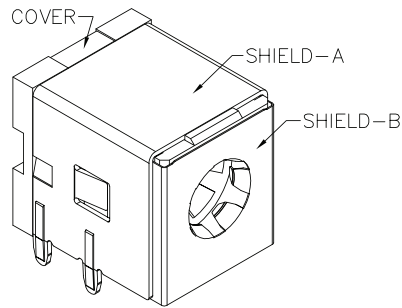
Note: 3. Must reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.  
4. When exceeding floor life by >72 hours.



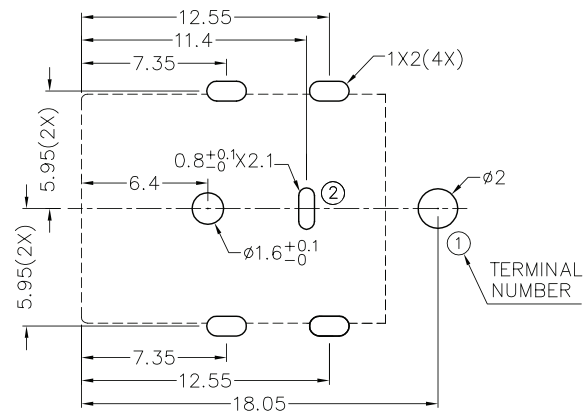
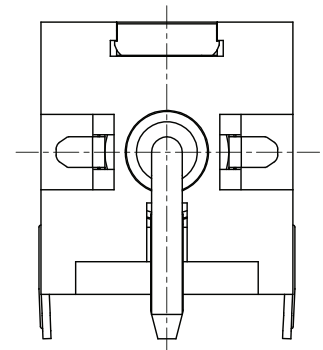
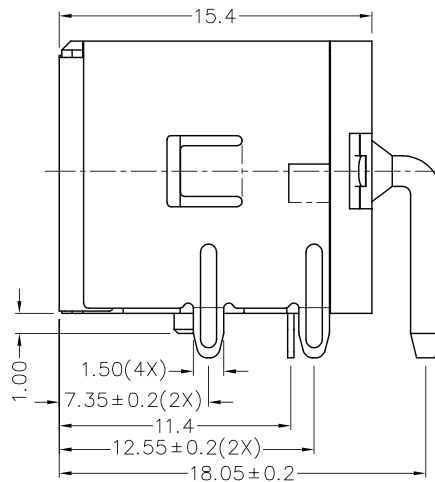
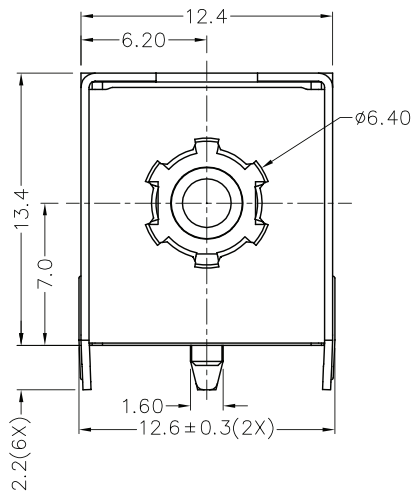
## MECHANICAL DRAWING

units: mm

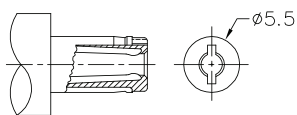
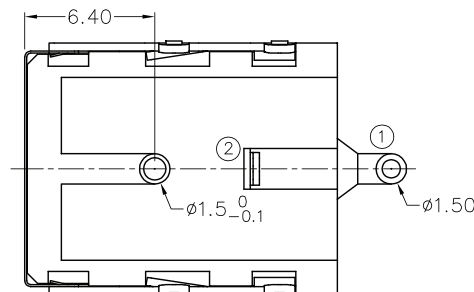
**TOLERANCE:**  
X.X  $\pm 0.2$ mm  
X.XX  $\pm 0.1$ mm  
X.XXX  $\pm 0.05$ mm  
PCB:  $\pm 0.05$  mm



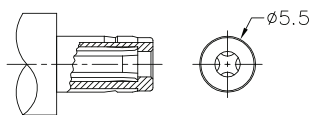
	MATERIAL	PLATING
terminal 1	brass	silver
terminal 2	copper alloy	silver
stopper	cold rolled steel	nickel
shield A	cold rolled steel	nickel
shield B	stainless steel	
plastic	PA6T or equivalent	



**Recommended PCB Layout  
Top View**



**MATING PLUG**  
Rating: 36 Vdc, 7 A



**MATING PLUG**  
Rating: 36 Vdc, 10 A

Jack Insertion Depth: 11.1mm

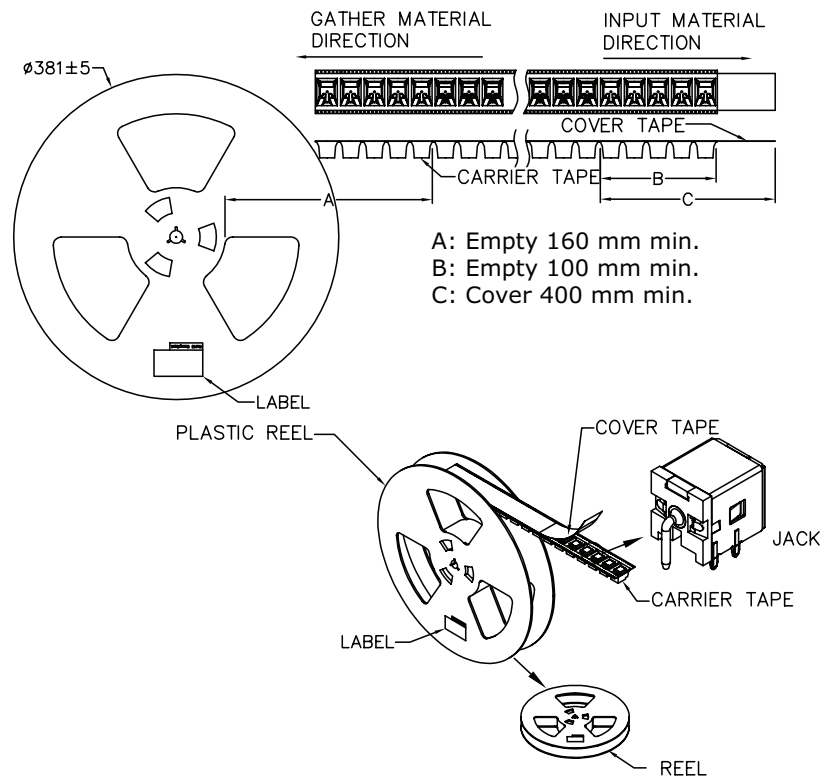
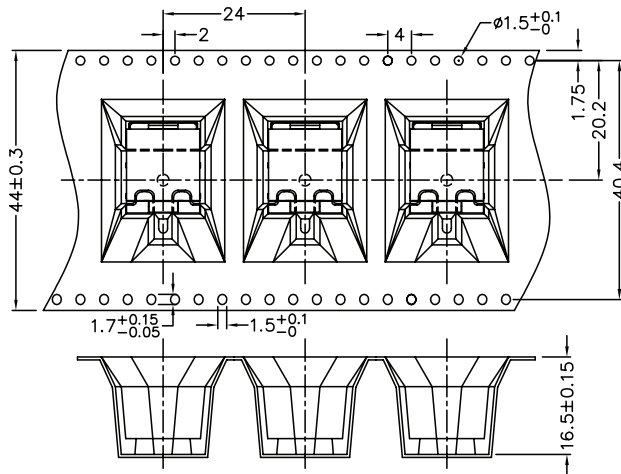
Schematic	1 2
Model	Center Pin
PJ-080BH	Ø2.5 mm

## PACKAGING

units: mm

Reel Size: Ø381 mm

Reel QTY: 220 pcs per reel



## REVISION HISTORY

rev.	description	date
1.0	initial release	03/07/2012
1.01	increased voltage rating	05/02/2016
1.02	increased voltage rating, added storage and drying conditions, and tape and reel packaging details	10/06/2017

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



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