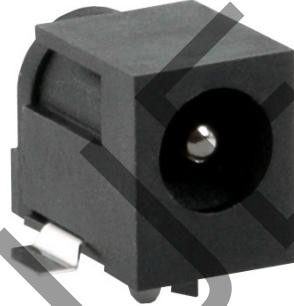


**MODEL:** PJ-037BH-SMT-TR | **DESCRIPTION:** DC POWER JACK**FEATURES**

- 2.5mm center pin
- 5.0 A rating
- horizontal orientation
- surface mount (SMT)

**SPECIFICATIONS**

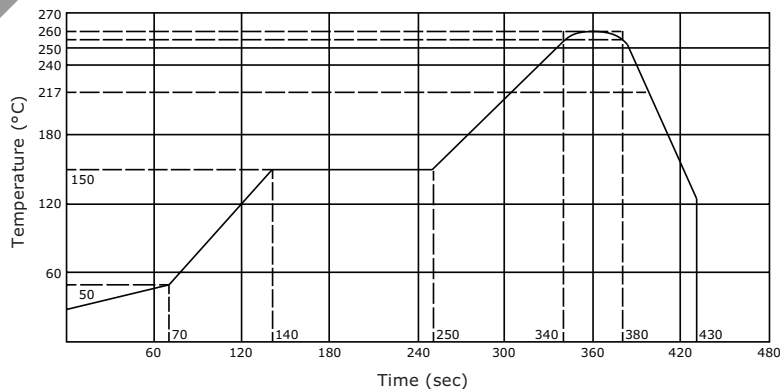
parameter	conditions/description	min	typ	max	units
rated input voltage			24		Vdc
rated input current				5	A
contact resistance ¹	between terminal and mating plug between terminal in a closed circuit			50 30	mΩ mΩ
insulation resistance	at 500 Vdc	100			MΩ
voltage withstand	for 1 minute			500	Vac
insertion/withdrawal 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	yes				

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
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 ±5°C for 72 hours parts removed from reel: bake at 40°C ±5°C for 10 hours				

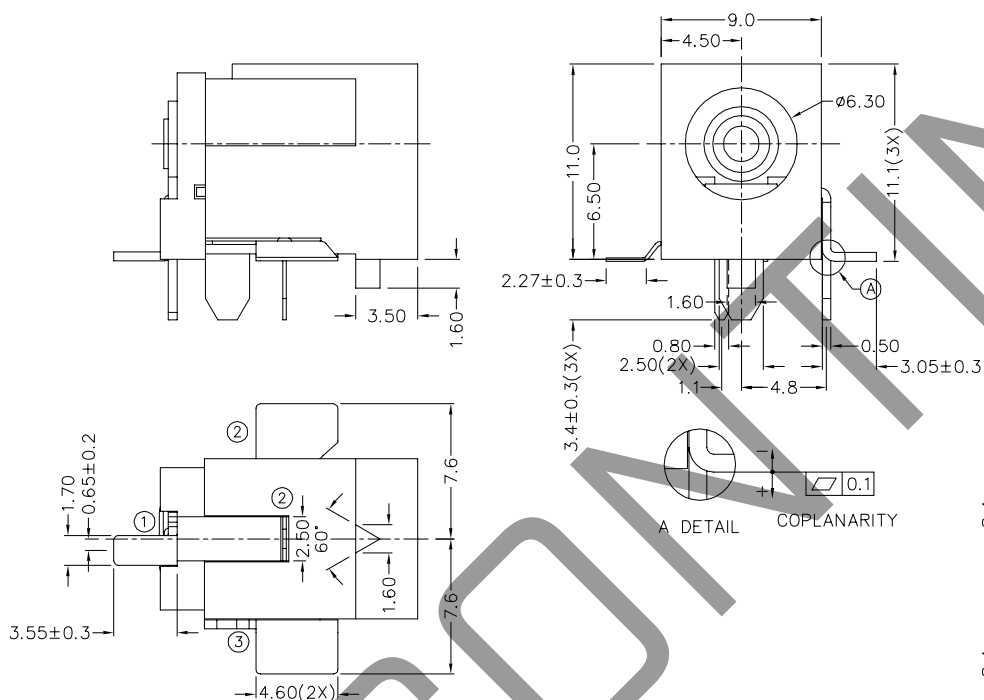
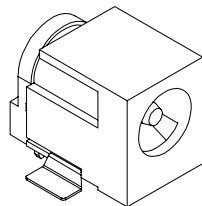
Note: 3. It is recommended to reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.
4. When exceeding floor life by >72 hours.



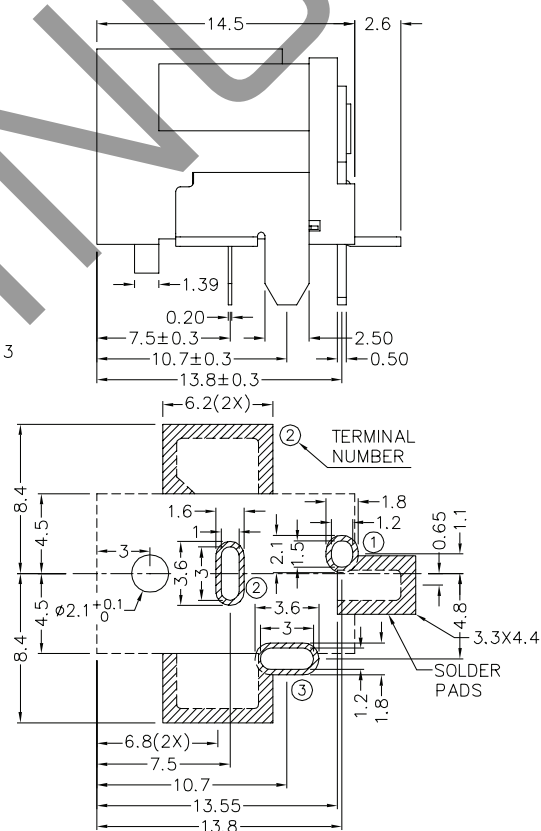
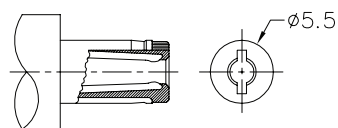
MECHANICAL DRAWING

units: mm[inches]

tolerance:

X.X ± 0.2 mmX.XX ± 0.1 mmX.XXX ± 0.05 mmPCB: ± 0.05 mm

	MATERIAL	PLATING
center pin	copper	nickel
terminal 1	brass	silver
terminal 2	copper alloy	silver
terminal 3	brass	silver
plastic	PA10T	

Recommended PCB Layout
Top View

MATING PLUG
Jack Insertion Depth: 9.15 mm

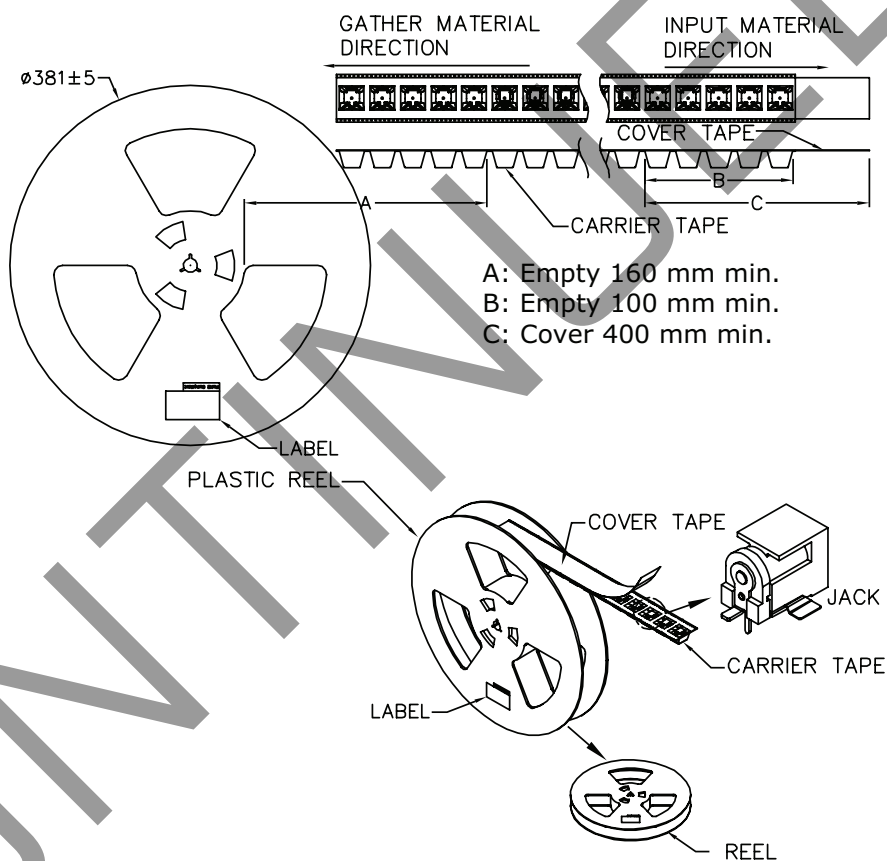
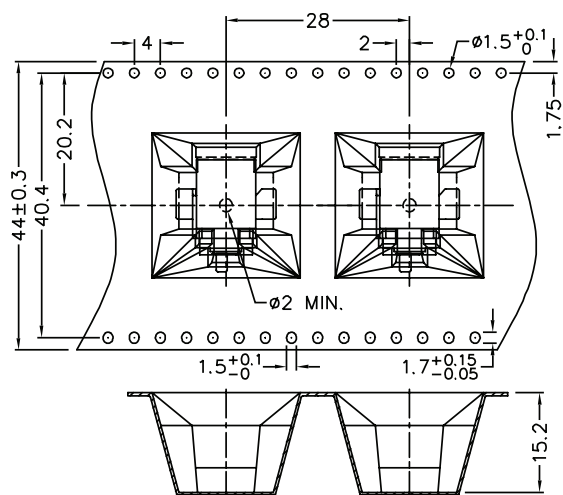
SCHEMATIC	
Model	PJ-037BH-SMT
Center Pin	$\phi 2.5$ mm

PACKAGING

units: mm

Reel Size: $\varnothing 381$ 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	10/18/2017
1.05	brand update	11/06/2019
1.06	logo, datasheet style update	08/05/2022

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