

**SERIES:** SJ1-3515-SMT | **DESCRIPTION:** DC POWER JACK

**FEATURES**

- low profile
- 1 A current rating


**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
rated input voltage			12		Vdc
rated input current				1	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		-25		85	°C

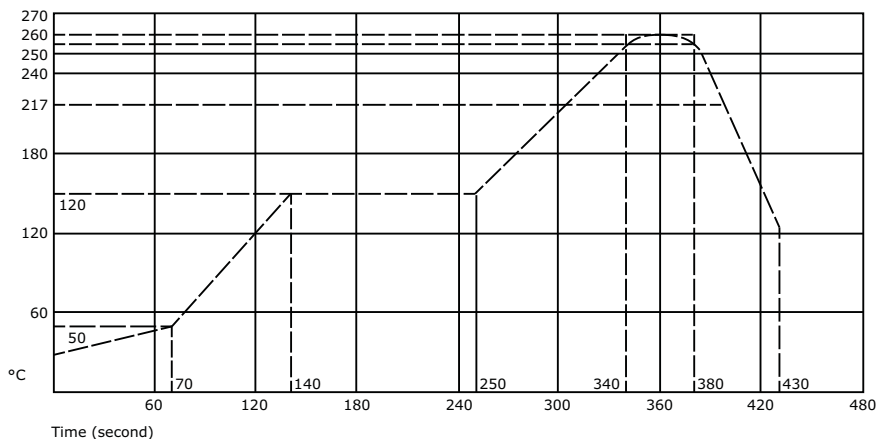
Notes: 1. When measured at a current of less than 100 mA / 1 kHz

**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	-37	-35	-33	°C
			96		hours
humidity	the relative test before and after testing should comply with the Insulation Resistance section	38	40	42	°C
			96	95	%RH hours

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.

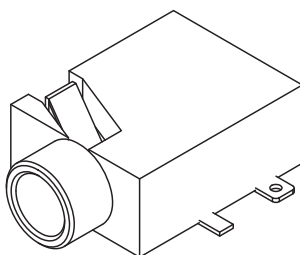
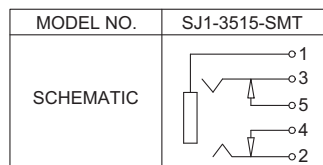
## REFLOW SOLDERING



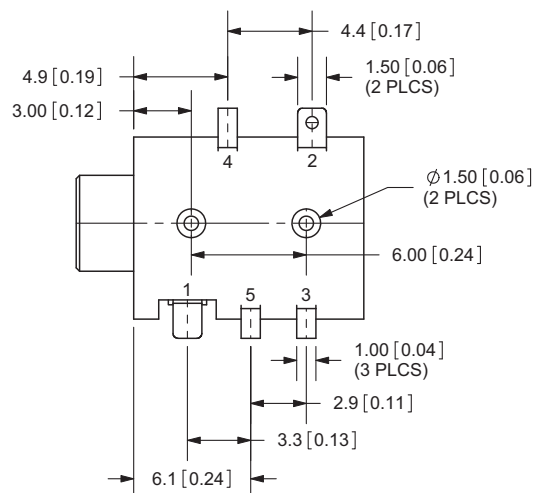
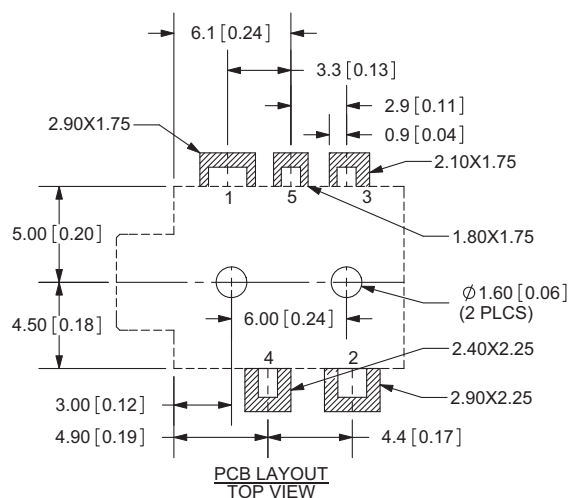
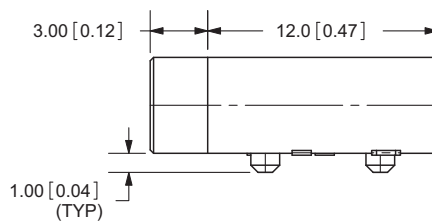
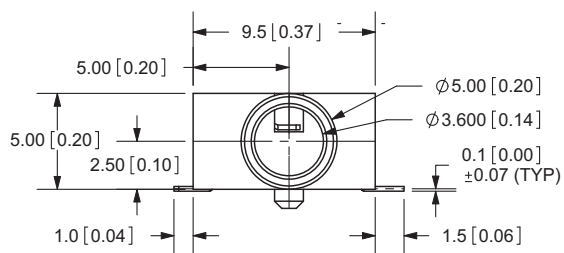
## MECHANICAL DRAWING

units: mm[inches]

TOLERANCE:

X.X  $\pm 0.2$ mmX.XX  $\pm 0.1$ mmX.XXX  $\pm 0.05$ mm

	MATERIAL	PLATING
terminal 1	copper alloy	gold
terminal 2	copper alloy	gold
terminal 3	copper alloy	gold
terminal 4	brass	gold
terminal 5	brass	gold
plastic	PA6T	



## REVISION HISTORY

rev.	description	date
1.0	initial release	11/21/2005
1.01	updated dimension	6/18/2008
1.02	added housing color options	4/29/2010
1.03	applied new template	07/26/2011

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



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