KUNMING
ELECTRONICS CO., LTD, ***SPECIFICATION***

TITLE PHONE JACK	**SPC. NO.**	**PAGE：** 1 OF 7 **DATE：** 2002.03.06

SPECIFICATION

1. Standard atmospheric condition：

Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows：

Ambient temperature：5℃ to 35℃

Relative humidity ：40% to 85%

Air pressure ：86kPa to 106kPa

If there is any doubt about the results, measurements shall be made within the following limits：

Ambient temperature：20±1℃

Relative humidity ：60% to 70%

Air pressure ：86kPa to 106kPa

Operating temperature range：－25℃ to 70℃

Storage temperature range ：－25℃ to 70℃

Humidity range：85% RH max.

2. Electrical characteristics：

	Item	Condition	Specifications
1	Rated voltage/ Rated current		D.C.12V 1A
2	Contact resistance	Normally open and normally closed contact shall be test. Measurement shall be made at with small current 1000 Hz（1A max.）	30mΩ max.
3	Insulation resistance	A voltage of 500V DC shall be applied for 1 minute. after which measurement shall be made.	100MΩ min.
4	Dielectric strength	500V AC（50 Hz to 60 Hz）for 1 minute. Trip current：2mA	Without damage to parts, arcing or breakdown, etc.

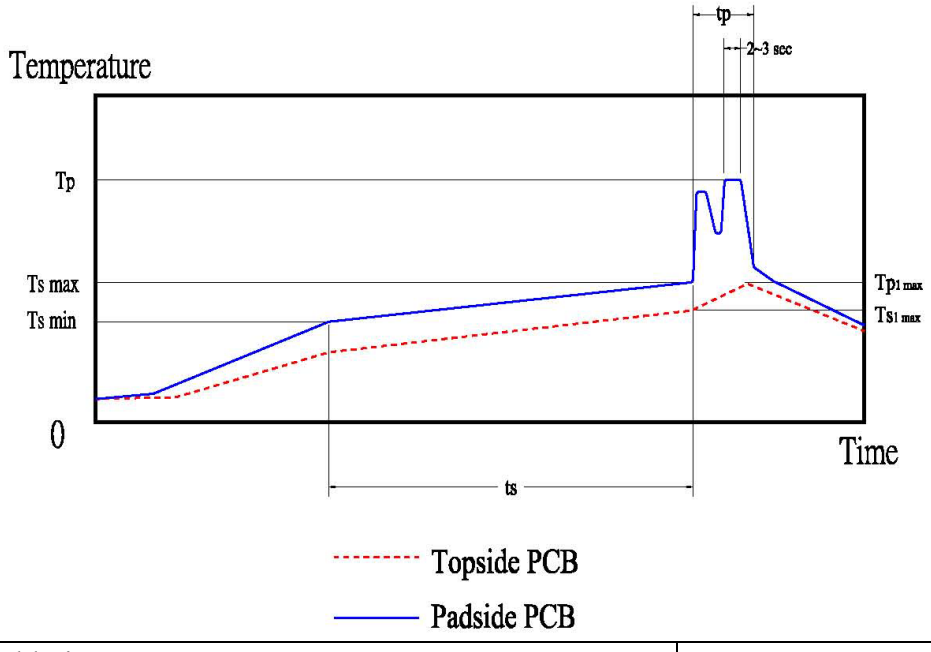
ISSUE	DATE	WRTN	CHKD	APVD	DESCRIPTIONS
⑥x1	2008.10.08	夏正雄	夏正雄	郭遠峰	Add Endurance test sequence
⑦x1	2009.08.03	江浩霆	郭遠峰	郭遠峰	Add statement of shelf life
⑧x1	2012.05.30	劉秀慧	郭素玲	郭遠峰	Modify the item 4.5

3. Mechanical characteristics

	Item	Condition	Specifications
1	Operating force	It shall be measured by using a gauge of mating plug.	
		Insertion force	4.9～34.3N（0.5～3.5kgf）
		Withdrawal force	4.9～29.4N（0.5～3kgf）

4. Endurance characteristics

	Item	Condition	Specifications
1	Low Temperature Test	The jack shall be stored for 96 hours at a temperature of －40℃±2℃. The jack shall be left alone for 30 minutes in a room ambient, after measurement shall be made. The dewdrops on the jack shall be blown off to stabilize measurement.	Dimensional requirements and electrical characteristics shall be satisfied.
		Insertion force	2.94～34.3N（0.3～3.5kgf）
		Withdrawal force	2.94～29.4N（0.3～3kgf）
2	High Temperature Test	The jack shall be stored for 96 hours at a temperature of 70℃±2℃and relative humidity of below 50%． The jack shall be left alone for 30 minutes in a room ambient, after measurement shall be made.	Dimensional requirements and electrical characteristics shall be satisfied.
		Insertion force	2.94～34.3N（0.3～3.5kgf）
		Withdrawal force	2.94～29.4N（0.3～3kgf）
3	Solderability	Temperature of solder：250±5℃ Time of dip：3±0.5 seconds Length of dip：2±0.5mm（from top of terminal）	The soldered area shall be covered a minimum of 90% of the surface being immersed.
4	Operating Endurance Test	Jack shall withstand 5000 cycles of insertion and withdrawal with testing plug as shown in Fig.1 at a rate of 20～30 cycles per minute.	Dimensional requirements and electrical characteristics shall be satisfied.
		Insertion force	2.94～34.3N（0.3～3.5kgf）
		Withdrawal force	2.94～29.4N（0.3～3kgf）
		Contact resistance	60mΩ MAX.

<table>
<tr><th></th><th>Item</th><th colspan="3">Condition</th><th>Specifications</th></tr>
<tr><td rowspan="7">5</td><td rowspan="7">Resistance to Soldering Heat Test</td><td colspan="3">Wave soldering Process</td><td rowspan="5">Electrical and mechanical characteristics shall be satisfied, and not show remarkable failure.</td></tr>
<tr><td rowspan="2">Profile Feature</td><td colspan="2">Pb-Free Assembly</td></tr>
<tr><td>Topside PCB</td><td>Padside PCB</td></tr>
<tr><td>Preheat
-Temperature min
-Temperature max
-Time (ts min to max)</td><td>120℃
(Ts1 max)</td><td>110℃
(Ts min)
150℃
(Ts max)
75 sec</td></tr>
<tr><td>Peak/Classification Temperature</td><td>165℃
(Tp1)</td><td>260℃ ±5℃
(Tp)</td></tr>
<tr><td>Time within 5℃ of actual Temperature (tp)</td><td></td><td>10 sec (within 2 times every time 2-3 sec)</td></tr>
<tr><td>Time 25℃ to Peak temperature</td><td></td><td>3 minutes max</td><td></td></tr>
<tr><td colspan="4">Wave Soldering Temperature Profile are as below
※About the plastic properties , Please refer to the data sheet of plastic.
 
</td></tr>
<tr><td colspan="2">Soldering Iron Test
Temperature of soldering Iron：380±10℃
Soldering time：3±1 seconds</td><td>Same as Wave soldering Process</td></tr>
<tr><td colspan="2">Insertion force</td><td>2.94～34.3N（0.3～3.5kgf）</td></tr>
<tr><td colspan="2">Withdrawal force</td><td>2.94～29.4N（0.3～3kgf）</td></tr>
</table>

5. RoHS compliant Parts：

5.1 All material which are RoHS compliant by containing banned substances.

5.2 Prohibition to use ozone depleting substances

Prohibited substances: CFCs/Halon/Carbon tetrachloride/1,1,1-Trichloroethan

(1) This product Assembly, or Component does not contain any of the above mentioned substances

(2) This product Assembly, or Component in the production process is not used any of the above mentioned substances.

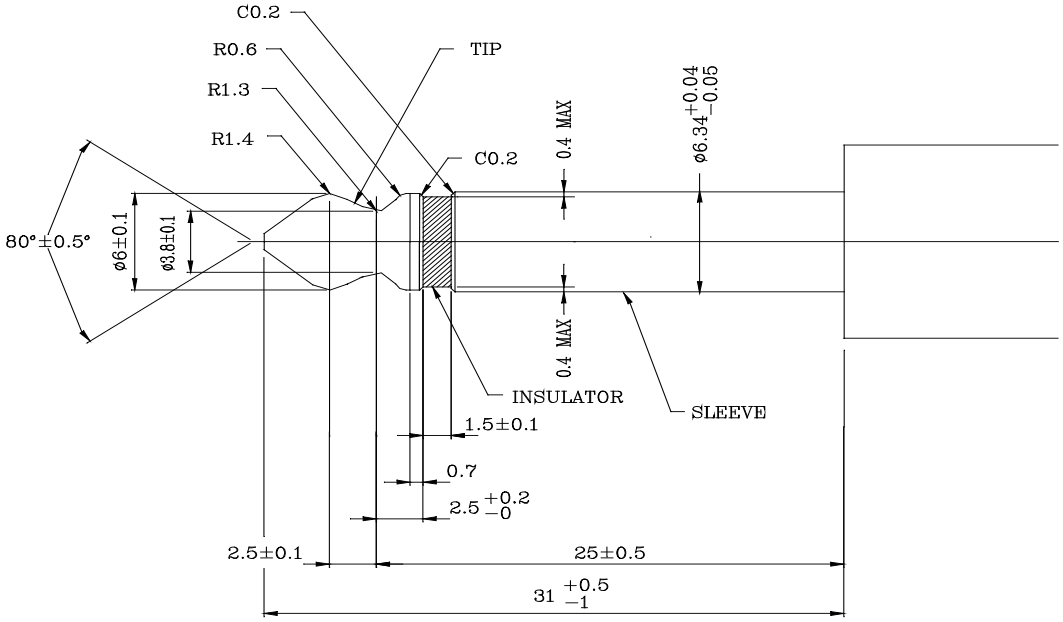
△7 6. Soldering condition shelf life about 6 months depend on storage condition of humidity, temperature and others factors.

7. Endurance test sequence：

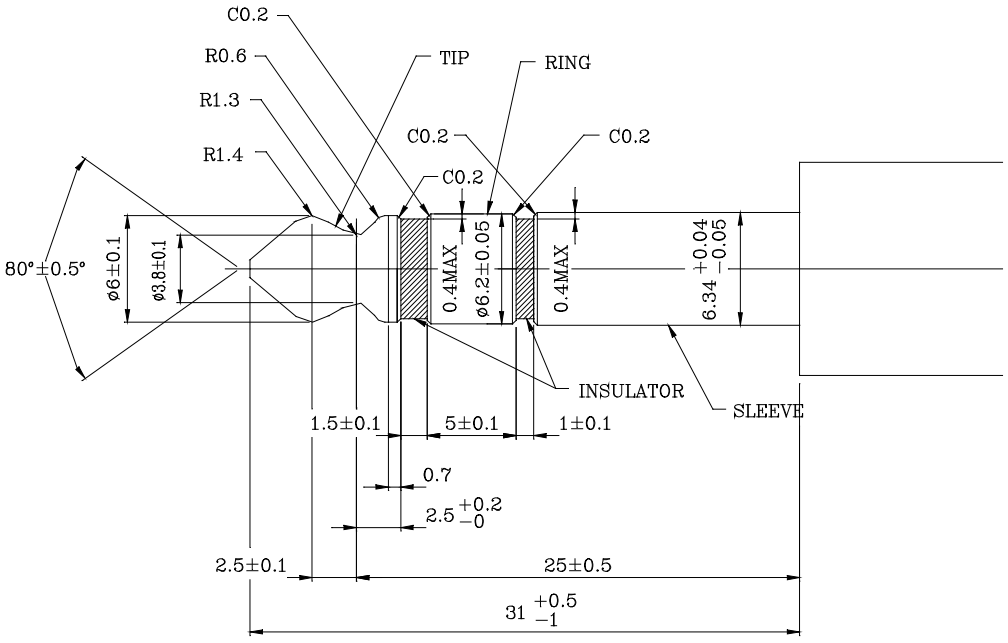
Test Item \ Test sequence \ Test group		A	B	C	D	E		
2.2	Contact resistance	1,6	1,6		1	1,6		
2.3	Insulation resistance	2,7	2,7		2,6	2,7		
2.4	Dielectric strength	3,8	3,8		3,7	3,8		
3.1	Operating force	4	4		4	4		
4.1	Low Temperature Test	5						
4.2	High Temperature Test		5					
4.3	Solderability			1				
4.4	Operating Endurance Test				5			
4.5	Resistance to Soldering Heat Test					5		

Test sample quality：2 pcs min. / group

8. Mating plug：

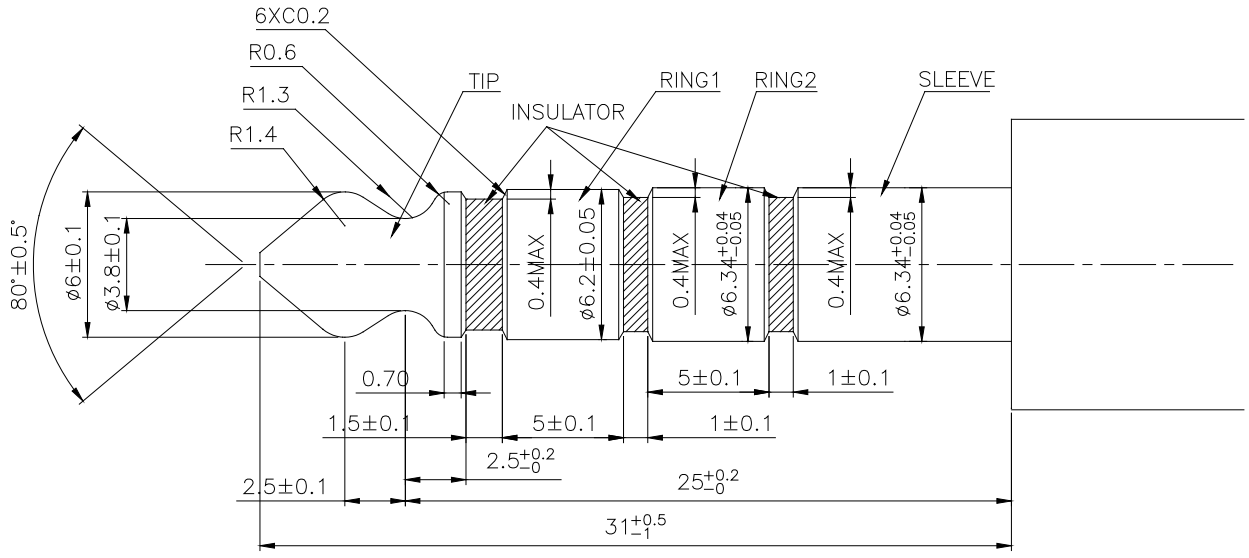


2 Conductors Type



3 Conductors Type

TITLE	**SPC. NO.**	**PAGE：** 7 OF 7
PHONE JACK		**DATE：** 2002.03.06



4 Conductors Type