## **ELECTRONICS CO., LTD,**

## **SPECIFICATION**

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AC POWER SOCKET	HJC-036	DATE:	2002.05.06

#### **SPECIFICATION**

### 1. Standard atmospheric condition:

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

Ambient temperature :  $15^{\circ}$ C to  $35^{\circ}$ C Relative humidity : 45% 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 :  $20 \pm 2^{\circ}$ C Relative humidity : 60% to 70%Air pressure : 86kPa to 106kPa

Storage Temperature Range  $\div$  -20°C to 65°C Operating Temperature Range  $\div$  -10°C to 55°C

Operating temperature range is the range of ambient temperature for the component that can be operated continuously at rated voltage and rated current.

#### 2. Electrical characteristics:

		1
Item	Condition	Specifications
2.1 Rated voltage		AC 250V.2.5A
6		or
Rated current		AC 125V.7A
2.2 Dielectric	Power socket shall withstand 4000V AC (50 to 60Hz).	Without damage to
		parts, arcing or
strength	Alternating current between each pin terminal for one minute.	breakdown, etc.
2.3 Insulation resistance	A voltage of 500 V DC shall be applied for 1 minute. After which measurement shall be made.	100MΩ MIN.
2.4 Contact resistance	Measurement shall be made at 1000Hz with small current (AC 100mA MAX.)	20mΩ MAX.

ISSUE	DATE	WRTN	СНКО	APVD	DESCRIPTIONS
<u>∕5</u> \x1	2012.11.14	黄健瑋	郭素玲	郭遠峰	To modify the item 4.2.

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### 3. Mechanical characteristics

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Item	Condition	Specifications
3.1 Operating force	Insertion and withdrawal force shall be measured by using a gauge of standard dimensions.	9.8N~58.8N (1Kgf~6.0Kgf)
3.2 Terminal strength	A static load of 58.8N (6Kgf) shall be applied to the tip of the terminals for 5 seconds. in any direction.	Without cracks or excessive looseness to the terminal. Electrical and mechanical characteristics shall be satisfied. Without play in terminal, etc.
3.3 Strength of tapping part	The tapping part shall be capable of a torque of 98N-cm (10Kgf-cm) for 5 seconds by M3X8 tapping tight screw and panel (t=1).	
3.4 Body strength	The body strength test shall be clamp down on housing of 10kg for 60 seconds by gauge.  A slight notch on the surface of body is acceptable.  gauae  w=10Kg	The jack shall not be broken.

### 4.Endurance characteristics

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Item	Condition	Specifications								
4.1 Soldarability	preflux, and shall be immersed into molten solder of 250±5°C for a period of 3±0.5 seconds.	A new uniform of solder shall cover a minimum of 90% of the surface being immersed.								

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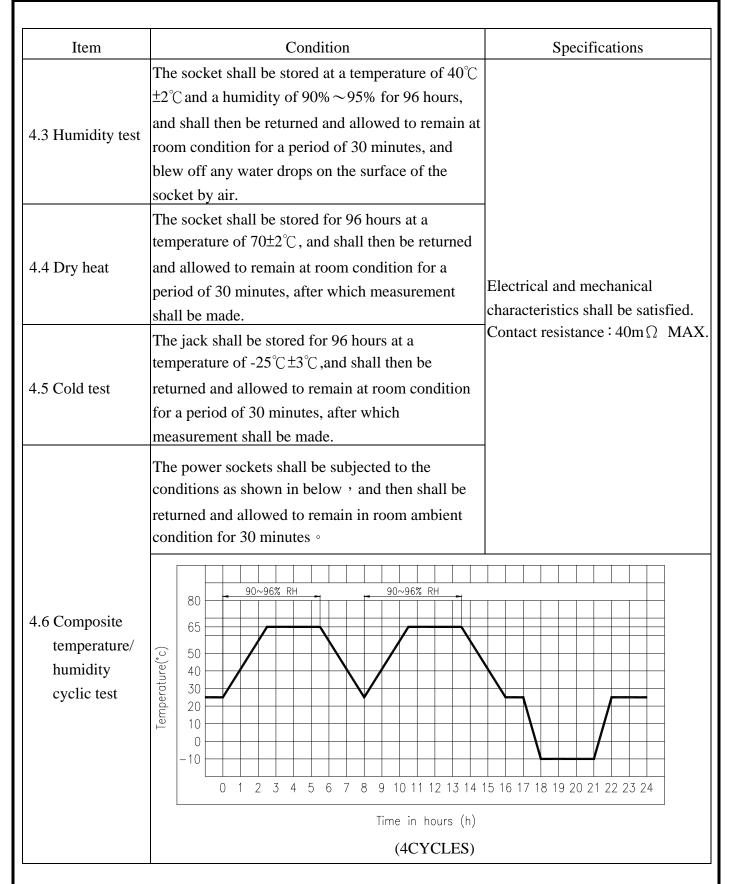
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Item	Co	ondition		Specifications		
	Wave soldering Process					
		Pb-Free A	Assembly			
	Profile Feature	Topside PCB	Padside PCB			
	Preheat -Temperature min -Temperature max -Time (t <sub>s</sub> min to max)	120°C (T <sub>sl</sub> max)	$110^{\circ}$ C ( $T_s \min$ ) $150^{\circ}$ C ( $T_s \max$ ) 75 sec	Electrical and mechanical characteristics shall be satisfied,		
	Peak/Classification	165°C	260°C ±5°C	and not show remarkable		
	Temperature  Time within 5°C of actual Temperature	(T <sub>pl</sub> max)	(T <sub>p</sub> ) 10 sec (within 2 times every	failure.		
			time 2-3 sec) 3 minutes max			
4.2 Resistance to	Wave Soldering Tempo			ata sheet of plastic.		
Soldering Heat Test	Temperature					
	Ts max Ts min		ts	Tp1 max TS1 max Time		
			Opside PCB			
	Soldering Iron Test Temperature of soldering Iron: 380±10°C Soldering time: 3±1 seconds			Same as Wave soldering Process		
	Ins	ertion force		9.8N~58.8N (1Kgf~6.0Kgf		
	Withdrawal force			9.8N~58.8N (1Kgf~6.0Kgf		

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Item	Condition	Specifications
	The life test shall consist of 5000 times of insertion	
	and withdrawal with the mate plug at a rate of 20	Electrical and mechanical
4.7 Life test	to 30 times per minute under no load.	characteristics shall be satisfied.
	Testing plug with putting electric conducted grease	Contact resistance : $40 \text{m}\Omega$ MAX.
	to avoid overheating and friction.	

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

5. Endurance test sequence:

Test group											
	Test sequence		В	С	D	Е	F	G	Н	I	J
Test Iter	n										
2.2	Dielectric strength	1,6				1,6	1,6	1,6	1,6	1,6	1,6
2.3	Insulation resistance	2,7				2,7	2,7	2,7	2,7	2,7	2,7
2.4	Contact resistance	3,8				3,8	3	3	3	3	3
3.1	Operating force	4,9				4	4,8	4,8	4,8	4,8	4,8
3.2	Terminal Strength	5									
3.3	Strength of tapping part		1								
3.4	Body strength			1							
4.1	Solderability				1						
4.2	Resistance to Soldering Heat test					5					
4.3	Humidity test						5				
4.4 Dry heat								5			
4.5	Cold test								5		
4.6	Composite temperature / humidity cyclic test									5	
4.7	Life test										5

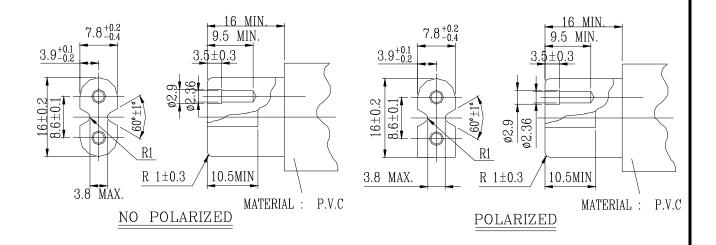
Test sample quality: 2 pcs min. / group

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### 6. Mating plug:



When above cord spec is inserted into or withdrawal from AC SOCKET, internal switch of AC SOCKET should be no problem.

### 7. Testing plug:

