ELECTRONICS CO., LTD,

SPECIFICATION

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 AC POWER SOCKET
 HJC-029
 DATE: 2005.03.10

SPECIFICATION

1. \(\triangle \text{Standard atmospheric condition } \):

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

Ambient Temperature: 15° C to 35° 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 106kPaStorage Temperature Range: -20°C to 65°C Operating Temperature Range: -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:

	Item	Condition	Specifications
1	Rated voltage Rated current		AC250V 2.5A
2	Dielectric strength	but in termating current between each pin terminal	Without damage to parts, arcing or breakdown, etc.
3	Insulation resistance	A voltage of 500V DC shall be applied for 1 minute. After which measurement shall be made.	100MΩ MIN.
4	Contact resistance	Measurement shall be made at 1000Hz with small current (AC 100mA MAX.)	50mΩ MAX.

ISSUE	DATE	WRTN	CHKD	APVD	DESCRIPTIONS
	2005.03.10	JOLLY	JOHNSO N	ERIC	
<u>∕3</u> X4	2007.12.24	JACKAL	JOHN50 N		修改 Solder ability、Resistance to soldering heat、Composite temperature humidity cyclic test、Standard atmospheric condition.。

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3. Mechanical characteristics

	Item	Condition	Specifications
1	Operating force	Insertion and withdrawal force shall be measured by using testing plug.	9.8N~58.8N (1.0kgf~6.0kgf)
2	Terminal strength	A static load of 58.8N (6.0kgf) 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	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)	The socket shall not be broken.
4	Body strength	The body strength test shall be clamp down on housing for 98N (10kg) / 60 seconds by gauge. gauge w=10Kg	The power socket must not be broken. A slight notch on the surface of body is acceptable.
		10 R5 15 Body	

4. Endurance characteristics

	Item	Condition	Specifications					
,		-	The soldered area shall be covered a minimum of 90% of					
		Length of dip: 2±0.5mm (from top of terminal)	the surface being immersed.					
3	Humidity test	shall then be returned and allowed to remain at room	Electrical and mechanical characteristics shall be satisfied.					
		Contact resistance	100mΩ MAX.					

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	Item		Condition		Specifications	
		Wave soldering Process				
		Drofile Easture	Pb-Free A	Assembly		
		Profile Feature	Topside PCB	Padside PCB		
		Preheat -Temperature min -Temperature max -Time (t _s min to max) Peak/Classification	120°C (T _{sl} max)	110°C ($T_s min$) 150°C ($T_s max$) 75 sec 260°C ±5°C	Electrical and mechanical characteristics shall be satisfied,	
		Temperature	(T _{pl} max)	(T _p)	and not show remarkable failure.	
		Time within 5° C of actual Temperature (t_p)		10 sec (within 2 times every time 2-3 sec)	latture.	
	Resistance to Soldering Heat Test	Time 25°C to Peak temperature		3 minutes max		
		Wave Soldering Temp	⊥ erature Profile a	re as below	<u> </u>	
		Temperatura			tp 	
		Тр				
		Ts max Ts min			Tpi max TSi max	
		0		ts	Time	
				Topside PCB		
		—— Padside PCB				
		Soldering Iron Test Temperature of soldering time: 3±1 s	_	.0℃	Same as Wave soldering Proce	
		-	sertion force		9.8N~58.8N(1.0kgf~6.0kg	
- 1		1			9.8N~58.8N(1.0kgf~6.0kg	

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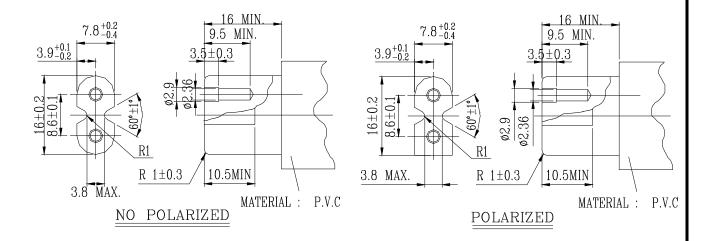
	Item	Condition Specifications						
4	Dry heat	The socket shall be stored for 96 hours at a temperature of $70\pm2^{\circ}$ C, and shall then be returned and allowed to remain at room condition for a period of 30 minutes, after which measurement shall be made.						
		Contact resistance $100 \text{m}\Omega$ MAX. The jack shall be stored for 96 hours at a temperature						
5	Cold test	of $-25^{\circ}\text{C}\pm3^{\circ}\text{C}$, and shall then be returned and allowed to remain at room condition for a period of 30 minutes, after which measurement shall be made. Contact resistance Electrical and mechanical characteristics shall be satisfied. $100 \text{m}\Omega \text{ MAX}.$						
6	Operating endurance	The life test shall consist of 5000 times of insertion and withdrawal with the mate plug at a rate of 20 to 30 times per minute under no load. Testing plug with putting electric conducted grease to avoid overheating and friction. Contact resistance Electrical and mechanical characteristics shall be satisfied.						
7	Composite temperature/ humidity cyclic test	The power sockets shall be subjected to the conditions as shown in below, and then shall be returned and allowed to remain in room ambient condition for 30 minutes. Contact resistance $ \begin{array}{c} $						
		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 Time in hours (h) ⚠ (4 CYCLES)						

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5. Mating plug:



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

6. Testing plug:

