ELECTRONICS CO., LTD,

SPECIFICATION

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 AC POWER SOCKET
 HJC-022
 DATE: 2003.09.15

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° 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 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:

	Item	Condition	Specifications
1	Rated voltage	Primary circuit.	AC 250V 7A
1	Rated current	Secondary circuit.	DC 24V 1A (12V 2A)
	Dielectric	Primary circuit: AC 2000V for 1minute.	Without damage to parts, arcing
2	strength	Secondary circuit: AC 250V for 1minute.	or breakdown, etc.
2	Insulation	A voltage of 500 V DC shall be applied for 1 minute.	100MΩ MIN.
3	resistance	After which measurement shall be made.	TOOMINA WITH.
	Contact	Measurement shall be made at 1000Hz with small	50mΩ MAX.
4	resistance	current and voltage.(AC 100mA MAX. 2mV MAX.)	JUIII 12 IVIAA.

ISSUE	DATE	WRTN	СНКО	APVD	DESCRIPTIONS
	2003.09.15	陳樹民	龔雲輝	龔雲輝	
<u></u> ⚠ x3	2007.12.20	李勇達	夏正雄	郭遠峰	修改 Solder ability、Composite temperature humidity cyclic test
<u>∕2</u> \x3	2010.09.21	江浩霆	劉秀慧	郭素玲	Modify item 2.2 ° Add item 7 \ 8 °
<u>∕3</u> x1	2012.11.14	黄健瑋	郭素玲	郭遠峰	Modify the item 4.4.

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3. Mechanical characteristics

	Item	Condition	Specifications
1	Operating	Insertion and withdrawal force shall be measured by	4.9N~58.8N
I	force	using a gauge of standard dimensions.	$(0.5\text{Kgf}\sim6.0\text{Kgf})$

4. Endurance characteristics

	Item	Condition	Specifications
1	The socket shall be stored at a temperature of $40^{\circ}\text{C}\pm2^{\circ}$ and a humidity of $90\% \sim 95\%$ for 240 hours, and shall then be returned and allowed to remain at room condition for a period of 30 minutes, and blew off any water drops on the surface of the socket by air.		Electrical and mechanical characteristics shall be
		Contact resistance	100 m Ω MAX.
2	Operating endurance	and withdrawar with the mate plag at a rate of 20 to	Electrical and mechanical characteristics shall be satisfied. $100 \text{m} \Omega \text{ MAX}.$
3	Solderability	Temperature of solder : $\triangle 250^{\circ}$ C $\pm 5^{\circ}$ C Time of dip : 3 ± 0.5 seconds	The soldered area shall be covered a minimum of 90% of the surface being immersed.

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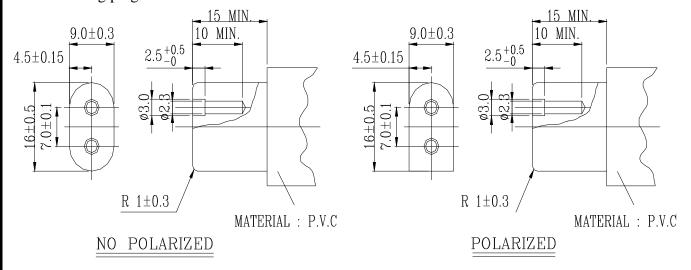
	Item	Сол	ndition		Specifications
		Wave soldering Process			-
			Pb-Free	Assembly	
]	Profile Feature	Topside PCB	Padside PCB	
		Preheat -Temperature min -Temperature max -Time (ts min to max)	120°C (Ts1 max)	75 sec	characteristics shall be
		Peak/Classification Temperature	165°C (Tp₁)	260°C ±5°C (Tp)	satisfied, and not show remarkable
		Time within 5°C of actual Temperature (tp)		` * ′	failure.
]	Time 25°C to Peak temperature		3 minutes max	
ļ	Resistance to Soldering Heat Test \triangle	19529			eet of plastic.
		Temperature			350
		Ts max Ts min			Tp1 max TS1 max
		0		ts	Time
				Topside PCB Padside PCB	
		Soldering Iron Test Temperature of soldering Ir Soldering time: 3±1 secon) Sam	ne as Wave soldering Proces
		AC POWER JACK	Insertion fo		~ 58 9N (0.5kgf ~ 6.0kgf)
		AC FOWER JACK	Withdrawal		\sim 58.8N(0.5kgf \sim 6.0kgf)

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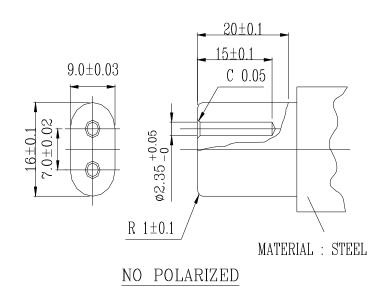
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5. Mating plug:



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

6. Testing plug:



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△8. Endurance test sequence

	Test group				
	Test sequence	Α	В	С	D
Test Item					
2.2	Dielectric strength	1,6	1,6		1,6
2.3	Insulation resistance	2,7	2,7		2,7
2.4	Contact resistance	3	3		3,8
3.1	Operating force	4,8	4,8		4
4.1	Humidity test	5			
4.2	Operating endurance		5		
4.3	Solderability			1	
4.4	Resistance to Soldering Heat Test				5

Test sample quality: 2 pcs min. / group