SPECIFICATION

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SPECIFICATION

1. A 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 ±2°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
2.1 Rated voltage Rated current		AC 250V 2.5A
2.2 Dielectric strength	Alternating current between each pin terminal for one minute.	Without damage to parts, arcing or 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 and voltage. (100mA max. 2mV max.)	50mΩ MAX.

ISSUE	DATE	WRTN	CHKD	APVD	DESCRIPTIONS
	2001.06.27	STEVEN	KUNG		UP DATE
<u>∧</u> x3	2007.12.24	JACKAL	JOHNSON	DICK	修改 Solder ability、Resistance to soldering heat、 Standard atmospheric condition.。
<u></u> <u></u> <u></u> <u> </u>	2010.09.16	PATRICK	PAUL	HELEN	Modify item 2.2 ° Add item 7 \ 8 °

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3. Mechanical characteristics

Item	Condition	Specifications
3.1 Operating force	Insertion and withdrawal force shall be measured by using a gauge of standard dimensions.	4.9N~58.8N (0.5Kgf~6.0Kgf)
3.2 Terminal strength		Without cracks or excessive looseness to the terminal. Electrical and mechanical characteristics shall be satisfied. Without play in terminal, etc.

4. Endurance characteristics

Item	Condition	Specifications
4.1 Solderability		The soldered area shall be covered a minimum of 90% of the surface being immersed.

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Item	Condition			Specifications	
	Wave soldering Process				
	D. C.I. E.	Pb-Free Assembly			
	Profile Feature	Topside PCB	Padside PCB		
	Preheat -Temperature min -Temperature max -Time (t _s min to max) Peak/Classification Temperature Time within 5°C of	$120^{\circ}\mathbb{C}$ $(T_{sl} \text{ max})$ $165^{\circ}\mathbb{C}$ $(T_{pl} \text{ max})$	110° C $(T_s min)$ 150° C $(T_s max)$ 75 sec 260° C $\pm 5^{\circ}$ C (T_p) 10 sec (within)	Electrical and mechanical characteristics shall be satisfied, and not show remarkable failure.	
	actual Temperature		2 times every		
	(t_p)		time 2-3 sec)		
	Time 25°C to Peak		3 minutes max		
	temperature				
\wedge	Wave Soldering Tempo	erature Profile a	re as below	←Ф	
4.2 Resistance to	Temperature			2~3 sec	
Soldering Heat Test	Тр				
	Ts max Ts min			Tp1 max Ts1 max	
	U	_	ts	Time	
			···· Topside PCB		
	——— Padside PCB				
	Soldering Iron Test				
	Temperature of soldering Iron: 380±10°C Soldering time: 3±1 seconds			Same as Wave soldering Proce	
		ertion force		4.9N~58.8N(0.5kgf~6.0kg	
	Withdrawal force			4.9N~58.8N(0.5kgf~6.0kg	

SPECIFICATION

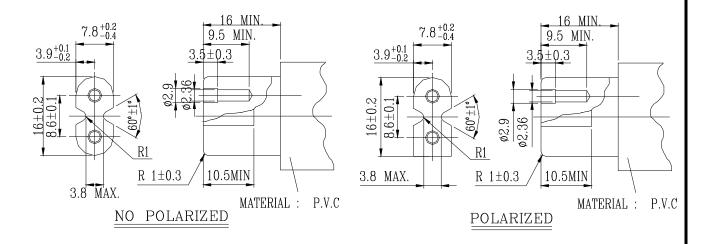
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T.	G IV	G 'C' '.
Item	Condition	Specifications
4.3 Humidity test	The socket shall be stored at a temperature of 40° C $\pm 2^{\circ}$ C and a humidity of $90\% \sim 95\%$ for 240 hours, and shall then be returned and allowed to remain at room condition for a period of 30 minutes, and blew off any water drops on the surface of the	
	socket by air.	
4.4 Dry heat	period of 30 minutes, after which measurement	The following items shall be satisfied. However damage which do not affect performance will be
4.5 Cold test	temperature of $-25^{\circ}\text{C}\pm3^{\circ}\text{C}$, and shall then be	considered acceptable. No.2.2, 2.3, 3.1, 3.2 Contact resistance : $100 \text{m} \Omega$ MAX.
4.6 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.	

SPECIFICATION

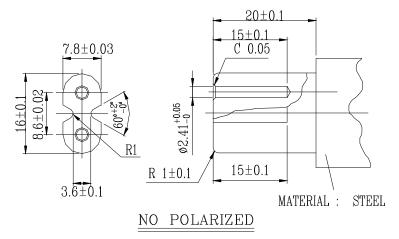
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5. Mating plug:



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

6. Testing plug:



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Test group							
Test sequence		Α	В	С	D	Е	F
Test Item							
2.2	Dielectric strength		1,6	1,6	1,6	1,6	1,6
2.3	Insulation resistance		2,7	2,7	2,7	2,7	2,7
2.4	Contact resistance		3,8	3	3	3	3
3.1	Operating force		4	4,8	4,8	4,8	4,8
3.2	Terminal strength			9	9	9	9
4.1	Solderability	5					
4.2	Resistance to Soldering Heat		5				
	Test						
4.3	Humidity test			5			
4.4	Dry heat				5		
4.5	Cold test					5	
4.6	Operating endurance						5

Test sample quality : 2 pcs min. / group