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SPECIFICATION

1. Standard atmospheric condition

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

Ambient temperature: 5°C to 35°C

Relative humidity : 45% to 85%

Air pressure : 86kPa to 106kPa

Operating temperature range: -40°C to 85°C

Storage temperature range : -40°C to 85°C

2. Electrical characteristics

Item	Conditions	Specifications
2.1 Rated voltage/ Rated current		AC 100V 1A Or DC 12V 2A MAX.
2.2 Dielectric strength	Between conductors which should not make contact under normal conditions. 250V AC r.m.s (50 to 60Hz) for 1 min. (trip current 2mA)	Without breakdown
2.3 Insulation resistance	A voltage of 250V DC shall be applied for a minute. Between conductors which should not make contact under normal conditions after which measurement shall be made.	50MΩ MIN.
2.4 Contact resistance	Measurement shall be made at 1000Hz with small current : 50mA	Pin—Contact : 30mΩ MAX.
		Plug cover—Socket : 50mΩ MAX.

ISSUE	DATE	WRTN	CHKD	APVD	DESCRIPTIONS
	2013.04.24	JON	JON	ELVIS	

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3. Mechanical characteristics

Item	Conditions	Specifications
3.1 Operating force	Insertion force	44.1N (4.5kgf) MAX
	Withdrawal force	4.9N~29.4N (0.5~3kgf)
3.2 Contact pull strength	Contact shall withstand a steady strength pull of 2kg in the direction of contact breakout for 20 seconds.	Without parting
3.3 Single tenacity		0.098N (10g) MIN.

4. Resistance to soldering heat test

Item	Conditions	Specifications
4.1	The terminal for a printed circuit board : Temperature of solder : 260 \pm 5 $^{\circ}$ C Dip time : 5 \pm 1 seconds The terminal for a lead wire : Temperature of solder : 350 \pm 10 $^{\circ}$ C Dip time : 3 \pm 1 seconds	Electrical and mechanical characteristics shall be satisfied, and not show remarkable failure.

5. Soldering test

Item	Conditions	Specifications
5.1	Temperature of solder : 260 $^{\circ}$ C \pm 5 $^{\circ}$ C Time of dip : 3 \pm 0.5 seconds Length of dip : 2 \pm 0.5mm (from top of terminal) To the balance point time : 3 seconds	A new uniform of solder shall cover a minimum of 95% of the surface being immersed.

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6. Endurance characteristics		
6.1 Humidity	The S-Jack and Pin Jack shall be subject to 90% ~95% RH, 40°C±3°C for 96 hours, and shall then be conditioned at room ambient conditions for a period of 1~2 hours.	Dimensional requirements shall be satisfied. Electrical and mechanical characteristics shall be satisfied. Pin—Contact : 80mΩ MAX. Plug cover—Socket : 100mΩ MAX. Insulation resistance: 1MΩ MIN.
6.2 Dry heat	The jack shall be stored at a temperature of 70±3°C for 96 hours, Then the jack shall be maintained at standard atmospheric conditions for 1~2 hours. after which measurement shall be made.	Dimensional requirements shall be satisfied. Electrical and mechanical characteristics shall be satisfied. Pin—Contact : 200mΩ MAX. Plug cover—Socket : 500mΩ MAX. Insulation resistance: 10MΩ MIN.
6.3 Operating endurance	The socket shall be subject to 1,000 cycles, at the rate of 10~20 cycles per minute.	Dimensional requirements shall be satisfied. Electrical and mechanical characteristics shall be satisfied. Pin—Contact : 80mΩ MAX. Plug cover—Socket : 100mΩ MAX.

