ELECTRONICS CO., LTD,

SPECIFICATION

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 S JACK
 HDC-058 (P)
 DATE: 2004.03.22

SPECIFICATION

1. Standard atmospheric condition

Unless otherwise specified, the standard range of atmospheric conditions for making

measurements and tests is as follows:

Ambient temperature : 15° C to 35° C

Relative humidity : 25% 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 : 63% to 67%

Air pressure : 86kPa to 106kPa

Storage temperature range : -25° C to 80° C

Operating temperature range : -25° C to 80° C

Operating temperature range is the range of ambient temperature for the component that can be

operated continuously at rated voltage and rated current.

ISSUE	DATE	WRTN	CHKD	APVD	DESCRIPTIONS
	2004.03.22	STEVEN	KUNG	KUNG	

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2. Electrical characteristics

	Item	Conditions	Specifications	
1	Rated voltage/		DC 50V 1A	
	Rated current			
2	Dielectric strength	Between conductors which should not make contact under normal conditions. 150V AC (50 to 60Hz) for 1 minute or 180V AC (50 to 60Hz) for 1 second. (trip current: 2mA)	Without distinct damage	
3	A voltage of 500V DC shall be applied for a minute. Between conductors which should not make contact under normal conditions after which measurement shall be made.		100MΩ MIN.	
	Contact	Measurement shall be made at 1000Hz with small current. (100mA MAX.)		
4	resistance	Pin-Contact Plug cover-Socket cover	30mΩ MAX.	
		Switch	100mΩ MAX.	

3. Mechanical characteristics

	Item	Conditions	Specifications
		Insertion and withdrawal force shall be measured after inserting and withdrawing 3 times by using a	
1	Operating force	gauge of standard dimensions.	
		Insertion force	$19.6N\sim73.5N (2\sim7.5kgf)$
		Withdrawal force	9.8N~49N (1~5kgf)
2	Single tenacity	Measuring pin gage: Standard plug	0.294N (30gf) MIN.
3	Terminal strength	Every terminal shall be capable of withstand a force of 9.8N (1kgf)	without loosing and breakdown, but deformation of terminal is authorized.

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	Item	Conditions	Specifications
		Direction: Arbitrary direction. Times: 5 seconds.	Without damage to the socket body or terminal bending. Electrical and mechanical characteristics shall be satisfied.
4	Torsion strength		JACK

4. Endurance characteristics

	Item	Cond	Specifications	
		The jack shall be stored a		
		60±2°C and a humidity o	Dimensional requirements,	
		96 hours. Then the jack si	hall be maintained at	electrical and mechanical
		standard atmospheric con	ditions for 30 minutes	characteristics shall be satisfied.
1	Humidity	after which measurement	shall be made.	
			Pin-Contact	60mΩ MAX.
		Contact resistance	Plug cover-Socket cover	OUIII\\\ \Z WIAA.
			Switch	200 m Ω MAX.
		Insulation	$10 \mathrm{M}\Omega$ MIN.	
		The jack shall be stored at a temperature of		
		80±2°C for 24 hours, The	Dimensional requirements,	
2	Dry heat	maintained at standard at	electrical and mechanical	
		30 minutes. after which n	characteristics shall be satisfied.	
		made.		
		Temperature of solder : 245°C±5°C		The soldered area shall be
3	Solderability	Time of dip: 3±0.5 secon	covered a minimum of 90% of	
		Length of dip: 2±0.5mm	the surface being immersed.	

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	Item	Conditions			Specifications		
4	Composite temperature /	perature /					It shall not have break and deformation happened.
	humidity cyclic	Temperature (°C)		5~35°C		5~35°C	
		Time (min.)	30	10~15	30	10~15	
		Inserting and withdrawing shall be made 100 times at a speed of 10 to 20 times/min.					Dimensional requirements, electrical and mechanical
5	Operating endurance	Using mating p	orug.		Pin-Cont	toot	characteristics shall be satisfied.
	endurance	Contact resi			ket cover	$45 \mathrm{m}\Omega$ MAX.	
		Contact resistance		1108	Switch		150mΩ MAX.
		The terminal for a printed circuit board:					
		Temperature of	f solder	260±5°(Electrical and mechanical	
6	Resistance to	Dip time: 5±1 seconds of twice.					characteristics shall be satisfied,
	soldering heat	The terminal fo			_		and not show remarkable
		Temperature of			$^{\circ}\!\mathbb{C}$		failure.
-		Dip time: 3±1	Dip time: 3±1 seconds				
7	Strength of tapping part	The tapping part shall be capable of a torque of 78.4N-cm(8kgf-cm)by M3x10 tapping type screw and panel (t=1mm)			It shall not have screw of idling and break happened.		

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PAGE: 5 OF SPC. NO. **TITLE** HDC-058 (P) DATE: 2004.03.22 S JACK 5. Standard plug $1.9^{+0.1}_{-0.05}$ 1.2±0.05 R / /*_{0.3} R 0.4 ± 0.05 1.6±0.05 4.875±0.1 $0.6^{+0}_{-0.03}$ RO.2 ±0.1 6±0.15 MAX Ø12.5