ELECTRONICS CO., LTD,

SPECIFICATION

TITLE SPC. NO. PAGE: 1 OF 4
PUSH TERMINAL HSP-1xx/KM05xx DATE: 2002.07.19

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 : 25% to 80% 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 Applicable wire : AWG #16-24

Operating temperature range : $-10^{\circ}\text{C} \sim 65^{\circ}\text{C}$

Storage temperature range $: -20^{\circ}\text{C} \sim 75^{\circ}\text{C} \triangle 70^{\circ}\text{C}$

2. Electrical characteristics:

	Item	Condition	Specifications
1	Rated voltage/ Rated current	With resistive load	A.C.60V , 7A
2	Contact resistance	Measurement shall be made at with small current 1000 Hz (1A or less), contact resistance of between terminals and the soft copper wire (AWG#22) made a closed circuit. Lock space 20 20 10	30m Ω MAX.

ISSUE	DATE	WRTN	СНКО	APVD	DESCRIPTIONS
	2002.07.19	STEVEN	KUNG	KUNG	
<u> </u>	2008.01.30	LORNA	JOHNSON	DICK	Modify the item 4.4 and 4.5 and 4.8

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	Item	Conc	lition	Specifications
-	100111	Conc	1	Specifications
3	Insulation resistance	A voltage of 500V D.C. shall be applied for 1 min. after which measurement shall be made.		100MΩ MIN.
		Shall be made.		
4	Dielectric strength	1000V A.C. (50 Hz to 60 Hz) for 1 minute. Trip current: 2 mA	Between each terminal	Without damage to parts, arcing or breakdown, etc.

3. Mechanical characteristics

	Item	Condition	Specifications
1	Operating force	Push plate force shall be measured by using a gauge of standard dimensions.	19.6N (2.0kgf) MAX.
2	Lead wire hold force	This test shall consist of AWG#20 copper wire of deeply inserted operation.	X-axis: 7.84N (0.8 kgf) Y-axis: 4.9N (0.5 kgf) Z-axis: 9.8N (1.0 kgf)
3	Input hole		2.0 mm MIN.
4	Terminal strength	terminals for 10 seconds in any direction.	The terminal shall not be excessive looseness from the housing.

4. Endurance characteristics

	Item	Condition	Specifications
1	Cold	The push terminal shall be left alone for 30 minutes	Dimensional requirements and electrical characteristics shall be satisfied.

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	Item	Condition	Specifications	
2	Dry heat	The jack shall be stored for 96 hours at a temperature of $70\pm2^{\circ}$ C. The testing terminal shall be left alone for 30 minutes in a room ambient, before measurement shall be made.	Dimensional requirements, electrical and mechanical characteristics shall be satisfied.	
3	Humidity test	Temperature: $40^{\circ}\text{C}\pm2^{\circ}\text{C}$ Relative humidity: $90\% \sim 95\%$ for 96 hours. The testing jack shall be left alone for 30 minutes in a room ambient, before measurement shall be made. But, admit of removing drop of water.	Dimensional requirements and electrical characteristics shall be satisfied.	
4	Composite temperature / humidity cyclic test	The pin jack 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.	Electrical and mechanical characteristics shall be satisfied.	
5	Solderability	Temperature of solder : $\frac{245^{\circ}C}{\triangle}$ \triangle 250°C±5°C Time of dip : 3 ±0.5 seconds Length of dip : 2 ±0.5mm (from top of terminal)	The soldered area shall be covered a minimum of 90% of the surface being immersed.	
6	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).		
7	Operating endurance	Life test shall consist of 100 cycles of connecting and disconnecting with a soft copper bar of ψ 1.2 mm at a rate of $5-10$ cycles per minute under no load. Dimensional requirements, electrical and mechanical characteristics shall be satisfied		

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	Item	Condition			Specifications	
		Wave soldering Process				
		D Cl E sterre	Pb-Free	Assembly		
		Profile Feature	Topside PCB	Padside PCB		
		Preheat -Temperature min -Temperature max -Time (ts min to max)	120°C (Ts1 max)	110°C (Ts min) 150°C (Ts max) 75 sec	Electrical and mechanical characteristics shall be satisfie	
		Peak/Classification	165°C	260°C ±5°C	and not show remarkable	
		Temperature	(Tp1)	(Tp)	failure.	
		Time within 5°C of actual Temperature (tp)		10 sec (within 2 times every time 2-3 sec)		
	Resistance to Soldering Heat Test	Time 25°C to Peak temperature		3 minutes max		
3		Temperature To To max To min	Тор	ts ————————————————————————————————————	Tp1 max Ts1 max	
		Soldering Iron Test Temperature of solderin Soldering time: 3±1 se	ng Iron:380±1		Same as Wave soldering Proces	