ELECTRONICS CO., LTD,

SPECIFICATION

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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: -20° C to 65° C Operating Temperature Range: -10° C to 55° C

ISSUE	DATE	WRTN	СНКО	APVD	DESCRIPTIONS
	2004.02.20	陳樹民	龔雲輝	龔雲輝	
<u>∧</u> x 1	2006.09.05	姜鳳梅	夏正雄	郭遠峰	Adding wave soldering condition
<u>∕2</u> x 1	2008.03.12	黄健瑋	夏正雄	郭遠峰	Modify the item 4.4
<u>∕3</u> x 2	2008.12.12	黄健瑋	夏正雄	夏正雄	Add Item 5 and 7
<u></u> <u></u> <u></u> <u> </u>	2012.12.20	劉秀慧	郭素玲	郭遠峰	Modify the item 4.5

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2. Electrical characteristics

	Item	Condition	Specifications
	Rated voltage/		AC 100V 1A
1			or
	Rated current		DC 12V 2A MAX.
2	Dielectric strength	Between conductors which should not make contact under normal conditions. 250V AC r.m.s (50 to 60Hz) for 1 minute. (trip current: 2mA)	Without breakdown
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.
4	Contact	Measurement shall be made at 1000Hz with small current: 50mA	
	resistance	Pin—Contact	30mΩ MAX.
		Plug cover—Socket	50 m Ω MAX.

3. Mechanical characteristics

	Item	Condition	Specifications		
Operating		Insertion force	44.1N (4.5kgf) MAX		
1 force		Withdrawal force	$8.82N\sim29.4N (0.9\sim3kgf)$		
121		Contact shall withstand a steady strength pull of 2kg in the direction of contact breakout for 20 seconds.	Without parting		
3	L'inala tanaaitri	The terminal shall be capable of withstand a force of 29.4N (3kgf) applied in any direction for 10 seconds.	0.098N (10g) MIN.		

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4. Endurance characteristics

	4. Endurance characteristics						
	Item	Condition	Specifications				
		The goodset shall be subject to 1,000 avalog at the mate	Dimensional requirements,				
		The socket shall be subject to 1,000 cycles, at the rate of	electrical and mechanical				
1	Operating	$10\sim20$ cycles per minute.	characteristics shall be				
1	endurance	20 cycles per minute.	satisfied.				
		Pin—Contact	80mΩ MAX.				
		Plug cover—Socket	100mΩ MAX.				
		The S-Jack and Pin Jack shall be subject to	Dimensional requirements,				
		90% \sim 95% RH, 40°C±3°C for 96 hours, and shall be	electrical and mechanical				
		conditioned at room ambient conditions for a period of	characteristics shall be				
2	Humidity test	$1\sim2$ hours.	satisfied.				
		Pin—Contact	$80 \text{m}\Omega$ MAX.				
		Plug cover—Socket	100 m Ω MAX.				
		Insulation resistance	$1M\Omega$ MIN.				
		The jack shall be stored at a temperature of 70±3°C for	Dimensional requirements,				
		96 hours, Then the jack shall be maintained at standard	electrical and mechanical				
		atmospheric conditions for $1\sim2$ hours. after which	characteristics shall be				
3	Dry heat	measurement shall be made.	satisfied.				
		Pin—Contact	200 m Ω MAX.				
		Plug cover—Socket	500 m Ω MAX.				
		Insulation resistance	$10 \mathrm{M}\Omega$ MIN.				
		Temperature of solder :	The soldered area shall be				
4	Soldering test	Time of dip: 3±0.5 seconds	covered a minimum of 90% of				
		Length of dip: 2±0.5mm (from top of terminal)	the surface being immersed.				

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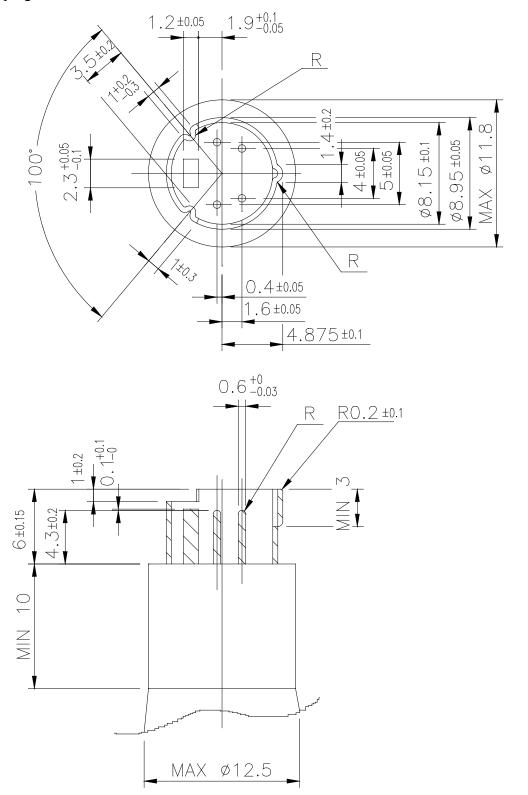
	Item	C	Condition		Specifications	
		Wave soldering Process				
		Profile Feature	Pb-Free A	Assembly		
		Prome Feature	Topside PCB	Padside PCB		
		Preheat -Temperature min -Temperature max -Time (ts min to max) Peak/Classification	120°C (Ts1 max)	110°C (Ts min) 150°C (Ts max) 75 sec 260°C ±5°C	Electrical and mechanical characteristics shall be satisfied, and not show remarkable	
		Temperature	(Tp ₁)	(Tp)	failure.	
		Time within 5°C of actual Temperature (tp)	(10 sec (within 2 times every time 2-3 sec)	Tarrare.	
		Time 25°C to Peak temperature		3 minutes max		
		Wave Soldering Tempe				
	Resistance to Soldering Heat Test	About the plastic pr	ta sheet of plastic.			
5		Temperature				
		Ts max Ts min			Tp1 max Ts1 max	
		0	_	ts	Time	
			Topside PCB			
		Padside PCB				
		Soldering Iron Test Temperature of soldering	ng Iron:380±1	0°C	Same as Wave soldering Process	
		Soldering time: 3±1 se				
		Inse	rtion force		44.1N (4.5kgf) MAX.	
		Withdrawal force 8.82N~29.4N (0.9		$8.82N\sim29.4N~(0.9\sim3kgf)$		

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- 5. A Soldering condition shelf life about 6 months depend on storage condition of humidity, temperature and others factors.
- 6. Standard plug



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7. <u>A</u>Endurance test sequence:

Test group								
	Test sequence		В	С	D	Е	F	G
Test Iter	n							
2.2	Dielectric strength	1,6			1,6	1,6		1,6
2.3	Insulation resistance	2,7			2	2		2,7
2.4	Contact resistance	3			3	3		3,8
3.1	3.1 Operating force				4,7	4,7		4
3.2	Contact pull strength		1					
3.3	Single tenacity			1				
4.1	Operating endurance	5						
4.2	Humidity test				5			
4.3 Dry heat						5		
4.4	Soldering test						1	
4.5	Resistance to Soldering							5
	Heat Test							-

Test sample quality: 2 pcs min. / group