## KUNMING **FLECTRONICS COLLTD**

ELECT	RONIC	S CO., L	TD,		IFICATION						
TITLE			SPC. NO	).	]	PAGE:	1 OF 6				
AC PC	OWER SOC	CKET		HJC-028	]	DATE :	2004.02.24				
SPECI	FICATION										
1. Star	ndard atmosp	heric condition	n:								
Unle	Unless otherwise specified, the standard range of atmospheric conditions for making										
meas	surements an	d tests are as f	ollows:								
	Ambient temperature: $15^{\circ}$ C to $35^{\circ}$ C										
	Relative humidity : 45% to 85%										
Air 1	pressure	:86kPa t	o 106kPa								
If th	oro is ony do	ubt about the r	agulta maga	romonte che	l be made withir	the follow	ving limits .				
	•	ture: $20\pm2^{\circ}C$	esuits, meast	irements sna			ving mints ·				
	-	y : 60% to	70%								
	oressure	: 86kPa t									
Stor	age Tempera	ture Range: -	$20^{\circ}$ C to $65^{\circ}$ C								
Oper	rating Tempe	erature Range:	-10°C to 55	5°C							
Oper	rating temper	ature range is	the range of	ambient tem	perature for the c	component	that can be				
oper	ated continue	ously at rated v	voltage and ra	ated current.							
ISSUE	DATE	WRTN	CHKD	APVD	DE	SCRIPTI	ONS				
	2004.02.24	STEVEN	KUNG	KUNG			0110				
			JOHNSO								
<u>∕</u> 1x2	2007.12.21	JACKAL	N	DICK	修改 Solder abilit	y • Resistan	ce to soldering heat				
<u>∕</u> 2x3	2010.09.16	PATRICK	PAUL	HELEN	Modify item 2	.2 ° Add ite	em 7 • 8 °				

## **SPECIFICATION**

TITLE			SPC. NO.	<b>PAGE</b> : 2 OF 6				
	AC POWER	SOCKET	HJC-028	<b>DATE</b> : 2004.02.24				
	2. Electrical ch	aracteristics						
	Item		Condition	Specifications				
2.1	Rated voltage Rated current			A.C.250V.2.5A				
2.2	Dielectric strength		all withstand 4000V AC (50 to current between each pin terminal	Without damage to parts, arcing or breakdown, etc.				
2.3	Insulation resistance	•	DC shall be applied for 1 minute. rement shall be made.	100M $\Omega$ MIN.				
2.4	Contact resistance	Measurement shall current (AC 100m	be made at 1000Hz with small A max.)	$20m\Omega$ MAX.				

#### 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	A static load of 19.6N (2Kgf) shall be applied to the tip of the terminals for 5 seconds. in any direction.	Without cracks or excessive looseness to the terminal. Electrical and mechanical characteristics shall be satisfied. Without play in terminal, etc.
3.3	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).	The terminal shall not break

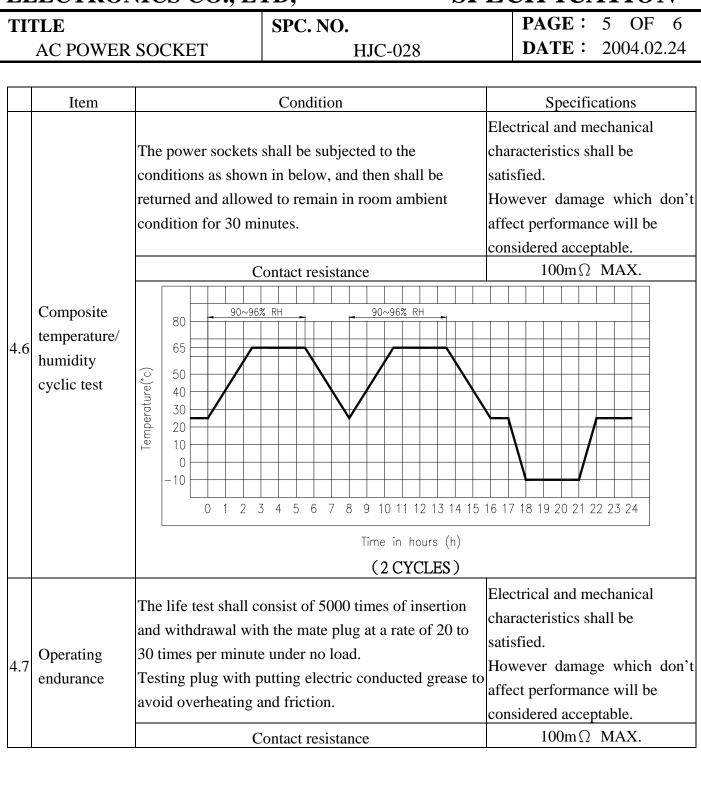
## **SPECIFICATION**

ELECTRONICS CO., LID, SPECIFICATION										
ТІТ	<b>`LE</b>		S	PC. NO.		PAG	E :	3 OF 6		
	AC POWER	SOCKET		HJC	2-028	DAT	E:	2004.02.24		
	4. Endurance c	characteristics								
	Item		C	Condition		Sp	ecific	cations		
		Wave soldering Pro	cess							
		Profile Feature		Pb-Free	Assembly					
				Topside PCB Padside PCB						
		Preheat -Temperature min -Temperature max -Time (t <sub>s</sub> min to ma		120°C (T <sub>sl</sub> max)	$110^{\circ}C$ (T <sub>s</sub> min) $150^{\circ}C$ (T <sub>s</sub> max) 75 sec	Electrical a characterist satisfied,				
		Peak/Classification	1	165°C	260°C ±5°C	and not sho	w rer	narkable		
		Temperature Time within 5°C	of	(T <sub>pl</sub> max)	$(T_p)$ 10 sec (within	failure.				
		actual Temperatu			2 times every					
		(t <sub>p</sub> )			time 2-3 sec)					
		Time $25^{\circ}$ C to Pe	ak		3 minutes max					
		temperature Wave Soldering Te		nature Drofile o						
4.1	A Resistance to Soldering Heat Test	Temperature	-				 23 sec	,		
		Ts max Ts min				V		Tp1 max TS1 max		
			/							
		0						Time		
		Topside PCB								
		Soldering Iron Tes	t							
		Temperature of sol Soldering time : 3:	lderi	•	.0°C	Same as Wa	ave so	oldering Process		
				ertion force		4.9N~58.8	BN(0)	.5kgf~6.0kgf)		
			With	drawal force		4.9N~58.8	SN(0)	.5kgf~6.0kgf)		

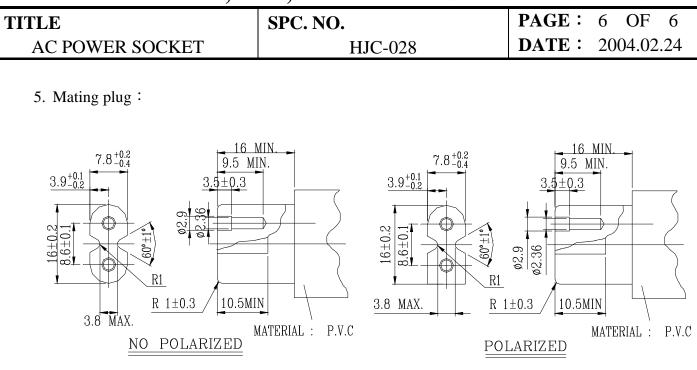
## **SPECIFICATION**

TITLE			SPC. NO.	<b>PAGE</b> : 4 OF 6				
AC POWER SOCKET			HJC-028	<b>DATE</b> : 2004.02.24				
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	Item		Condition	Specifications				
		∴Temperature of s	older : $250^{\circ}C \pm 5^{\circ}C$	The soldered area shall be				
4.2	Solderability	Time of dip $: 3\pm 0.5$	5 seconds	covered a minimum of 90% of				
		Length of dip : 2±0	0.5mm (from top of terminal)	the surface being immersed.				
		The socket shall be	stored at a temperature of $40^{\circ}$ C±2	Electrical and mechanical				
			f 90% $\sim$ 95% for 96 hours, and	characteristics shall be				
		-	ed and allowed to remain at room	satisfied.				
4.3	Humidity test		od of 30 minutes, and blew off	However damage which don't				
		-	the surface of the socket by air.	affect performance will be				
			the surface of the socket by an.	considered acceptable.				
		С	ontact resistance	$100 \mathrm{m}\Omega$ MAX.				
				Electrical and mechanical				
		The socket shall be	stored for 96 hours at a	characteristics shall be				
		temperature of 70±2	$2^{\circ}$ C, and shall then be returned and	satisfied.				
4.4	Dry heat	allowed to remain a	t room condition for a period of	However damage which don't				
		30 minutes, after w	hich measurement shall be made.	affect performance will be				
				considered acceptable.				
		C	ontact resistance	$100 \mathrm{m}\Omega$ MAX.				
				Electrical and mechanical				
	Cold test	The jack shall be st	ored for 96 hours at a temperature	characteristics shall be				
		of $-40^{\circ}$ C $\pm 3^{\circ}$ C ,and s	hall then be returned and allowed	satisfied.				
4.5		to remain at room c	ondition for a period of 30	However damage which don't				
		minutes, after which	h measurement shall be made.	affect performance will be				
				considered acceptable.				
		C	ontact resistance	$100 \mathrm{m}\Omega$ MAX.				

#### **SPECIFICATION**

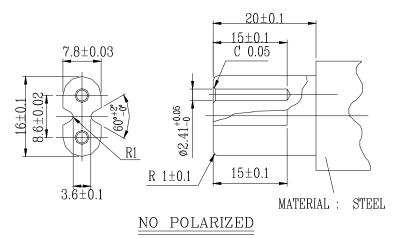


#### **SPECIFICATION**



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

6. Testing plug :



## **SPECIFICATION**

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ITLE SPC. NO. PAGE: 6 OF										
AC P	OWER SOCKET	HJC-028				D	<b>DATE</b> : 2004.02.2			
<u>∕</u> 28. E	Endurance test sequence									
	<u>```</u>			1		T		1	1	
	Test grou	р								
	Test sequence	А	В	С	D	Е	F			
Test It	em									
2.2	Dielectric strength	1,6		1,6		1,6	1,6	1,6	1,6	1,6
2.3	Insulation resistance	2,7		2,7		2,7	2,7	2,7	2,7	2,7
2.4	Contact resistance	3,8		3,8		3	3	3	3	3
3.1	Operating force	4,9		4		4,8	4,8	4,8	4,8	4,8
3.2	Terminal strength	5								
3.3	3.3 Strength of tapping part		1							
4.1	Resistance to Soldering Hea Test	t		5						
4.2	Solderability				1					
4.3	Humidity test					5				
4.4	Dry heat						5			
4.5	4.5Cold test4.6Composite temperature / humidity cyclic test							5		
4.6									5	
4.7	Operating endurance									5

Test sample quality : 2 pcs min. / group