KUNMINGELECTRONICS CO., LTD,SPECIFICATIONTITLESPC. NO.PAGE: 1 OF 7

PAGE: 1 OF 7 DATE : 2004.07.07 MINIATURE JACK HTJ-035-24 **SPECIFICATION** 1. Standard atmospheric condition Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows : Ambient temperature : 5°C to 35°C Relative humidity : 45% to 85% : 86kPa to 106kPa Air pressure If there is any doubt about the results, measurements shall be made within the following limits: Ambient temperature : $20\pm2^{\circ}C$ Relative humidity : 60% to 70% : 86kPa to 106kPa Air pressure Operating temperature range $: -25^{\circ}$ C to 70°C Storage temperature range \therefore -25°C to 70°C

2. Electrical characteristics :

	Item	Conc	Specifications	
1	Rated voltage/ Rated current	With resistive load	D.C.12V.1A	
2	Contact	Measurement shall be made at with small current	Make contacts Break contacts	$30m\Omega$ MAX.
	resistance	1000 Hz(100 mA or less)	Slide switch contacts	$50m\Omega$ MAX,
3		shall be applied for 1 min. after which measurement shall be made. (For the insulation resistance test	Between the conductors which should not make contact under normal conditions. Between each terminal and insulated metal part.	100MΩ MIN.

ISSUE	DATE	WRTN	CHKD	APVD	DESCRIPTIONS
	2004.07.07	陳樹民	夏正雄	楊仲民	
<u>∕</u> ∩x 1	2006.07.09	鄭伍豐	夏正雄	郭遠峰	將焊錫溫度條件列入規範
∕∆x 2	2008.03.11	陸昌妹	夏正雄	郭遠峰	Modify the item 4.1
<u>∕</u> 3x 1	2012.06.19	劉秀慧	郭素玲	郭遠峰	Modify the item 4.2

SPECIFICATION

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MINIATURE JACK		HTJ-035-24			2004.07.07
Item		Condition		Specifi	cations

4	Dielectric strength	lectric ngth $500V A.C. (50 Hz to 60 Hz) for 1 min.$ Trip current: $2mA(For the insulation resistance test gauge refer to clause 6)$		Without damage to parts, arcing or breakdown, etc.
			Between each terminal and insulated metal part.	

3. Mechanical characteristics

	Item	Cond	ition	Specifications			
1	Operating force	Insertion and withdrawal for after inserting and withdraw gauge of standard dimension	2.94N~29.4N (0.3kgf~3.0kgf)				
2	Terminal strength	A static load of 4.9N (0.5Kgf) shall be applied to the		looseness to the terminal. Electrical and mechanical			
3	Contact pressure	the make contact shall be measured in the operation by using the minimum	The contact pressure with the make contact. g the break contact shall be	1N (102 gf) MIN.			

4. Endurance characteristics

	Item	Condition	Specifications
1	5	Time of dip : 3 ± 0.5 seconds	The soldered area shall be covered a minimum of 90% of the surface being immersed.

SPECIFICATION

PAGE : 3 OF 7 TITLE SPC. NO. DATE : 2004.07.07 MINIATURE JACK HTJ-035-24 Condition Specifications Item Wave soldering Process **Pb-Free Assembly Profile Feature Topside PCB** Padside PCB 110°C Preheat (Ts min) 120°C -Temperature min 150°C -Temperature max (Ts1 max) Electrical and mechanical (Ts max) -Time (ts min to max) characteristics shall be satisfied, 75 sec and not show remarkable Peak/Classification 165°C 260°C ±5°C Temperature (Tp1) (Tp) failure. Time within 5° C of 10 sec (within actual Temperature 2 times every time 2-3 sec) (tp)Time 25°C to Peak 3 minutes max temperature Wave Soldering Temperature Profile are as below \triangle About the plastic properties, Please refer to the data sheet of plastic. ∕∧ Resistance 3 sec to Soldering 2 Temperature Heat Test Tp Ts max Tp1 max TS1 mer Ts min 0 Time **Topside PCB** Padside PCB Soldering Iron Test Temperature of soldering Iron : 380±10℃ Same as Wave soldering Process Soldering time : 3 ± 1 seconds $1.96 \sim 29.4 \text{N} (0.2 \sim 3 \text{kgf})$ Insertion force $1.96 \sim 29.4 N (0.2 \sim 3 kgf)$ Withdrawal force

SPECIFICATION

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	Item	Condition	Specifications				
3	Cold	The jack shall be stored for 96 hours at a temperature of $-25\pm3^{\circ}$ C immediately after which measurement shall be made.	Dimensional requirements shall be satisfied. Electrical and mechanical characteristics shall be satisfied.				
4	Dry heat	The jack shall be stored for 96 hours at a temperature of $70\pm2^{\circ}$ immediately after which measurement shall be made.	Dimensional requirements shall be satisfied. Electrical and mechanical characteristics shall be satisfied.				
5	Damp heat (Steady state)	The jack shall be stored at a temperature of 40°C and a humidity of 90% to 95% for 96 hours. Then the jack shall be maintained at standard atmospheric conditions for 1 to 2 hours after which measurement shall be made.	Dimensional requirements shall be satisfied. Electrical and mechanical characteristics shall be satisfied.				

SPECIFICATION

TITLE MINIATURE JACK **SPC. NO.** HTJ-035-24 **PAGE**: 5 OF 7 **DATE**: 2004.07.07

	Item		dition	Specifications	
	Composite temperature/ humidity cyclic test	The jack shall be subjected each as shown in figure be stored at standard atmosph hours for recovery, after w made. *Temperature shall be redu within 30 minutes. *Humidity uncontrolled at 25°C	Dimensional requirements shall be satisfied. Electrical and mechanical characteristics shall be satisfied.		
6		emberatrice B0 B0 B0 B0 B0 B0 B0 B0 B0 B0		14 15 16 17 18 19 20 21 22 23 24 (h)	
7		to 20 times / min. Measure every 500 times. 3000 times 2000 times	tandard dimension gauge, e applied) at a speed of 10 ement shall be made for Without load Rated resistance load Make contacts	Electrical and mechanical characteristics shall be satisfied. $50m\Omega$ MAX.	
		Contact resistance	Break contacts	$50m\Omega$ MAX.	
			Slide switch contacts	$80m\Omega$ MAX.	
		Insertio	2N~30N (0.2Kgf~3Kgf)		
		Withdra	wal force	2N~30N (0.2Kgf~3Kgf)	

SPECIFICATION

ΤI	TLE		SPC. NO.	PAGE : 6 OF 7
	MINIATU	RE JACK	HTJ-035-24	DATE : 2004.07.07
	Item		Condition	Specifications
8	Sulfuration		niniature jack shall be dipped into a 3% potassium sulfide for 1 minute.	$60m\Omega$ MAX.
		The standard dime	ension gauge, (Refer to Clause 6)	
		Following plug shaves vertical directions	e set in the actual used condition, all be applied to horizontal and to the jack each for 5 seconds. urement shall be made.	
9	Torsion strength		Standard gauge or mating plug	

5. FACTORY NAME : KUNMING ELECTRONICS (SHENZHEN) CO., LTD

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