

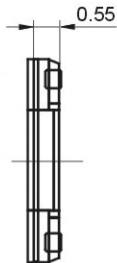
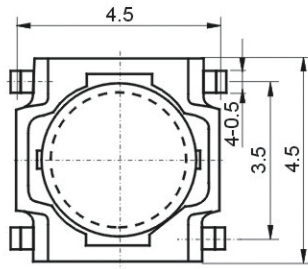
KEMEI ELECRIC CO.,LTD 科美電子有限公司		文件編號	SF-SP-2008
		發布日期	2008 年 11 月 24 日
SPECIFICATION 規格書		第 A 版	第 1 頁 共 3 頁
MODEL NO. 產品名稱：轻触开关：4.5x4.5x0.55			
DRAWN 制訂	谢小梅	APPD. 審批	郑有财
1. RATING (額定值)		: DC 12V 50mA	
2. ELECTRICAL CHARACTERISTICS (電氣性能規格):			
ITEM 項目	TEST CONDITIONS 測試條件		PERFORMANCE 規格
2.1	CONTACT RESISTANCE 接觸電阻	MEASURED AT 1KHz SMALL CURRENT(100 mA OR LESS) 在 1KHz 微小電流(100mA 以下)測試。	100mΩ MAX. 100 毫歐以下。
2.2	INSULATION RESISTANCE 絕緣電阻	APPLY A VOLTAGE OF 500V DC FOR 1 MIN. TO FOLLOWING PORTIONS AFTER WHICH MEASUREMENT SHALL BE MADE: (1) BETWEEN CONDUCTORS NOT TO BE CONTACT 輸入 500V DC 電壓 1 分鐘,按以下接觸方法測試: (1) 不接觸的排腳之間. (2) 排脚与外壳之間.	100MΩ MIN. 100 兆歐以上。
2.3	DIELECTRIC STRENGTH 耐電壓	AC 500V rms(50-60Hz) FOR 1 MIN TRIP CURRENT:0.5 mA (1) BETWEEN CONDUCTORS NOT TO BE CONTACT 輸入 AC 500V(50-60Hz)電壓,1 分鐘感度電流為 0.5mA,按以下 接觸方法測試: (1) 不接觸的排腳之間. (2) 排脚与外壳之間.	WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC. 沒有絕緣破壞等異常.
3 .MECHANICAL CHARACTERISTICS (機械性能規格)			
ITEM 項目	TEST CONDITIONS 測試條件		PERFORMANCE 規格
3.1	CONNECTION FORCE 按鍵力度	MEASUREMENT SHALL BE MADE AFTER CONNECTING AND DISCONNECTING USING STANDARD PLUG GAUGE 3 TIMES. 依據標準的 PLUG GAUGE 向下按 3 次后測定。	160gf±10gf
3.2	TERMINAL STRENGTH 端子強度	A STATIC LOAD OF 300gf SHALL BE APPLIED TO THE TERMINAL FOR 15 SEC.IN ANY DIRECTION 在排腳前端任意一個方向加 300gf 力度測試,時間為 15 秒.	THERE SHALL BE NO DAMAGE TO THE TERMINAL SUCH AS CRACKS, LOOSENESS OR PLAY. ELECTRICAL AND MECHANICAL CHARACTERISTICS SHALL BE SATISFIED. 在排腳中沒有裂開.鬆動等異常. 滿足于机械.電器性能。

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4. DURABILITY (耐久性) :			
ITEM 項目	TEST CONDITIONS 測試條件	PERFORMANCE 規格	
4.1 SOLDERABILITY TEST 可焊性試驗	THE TOP OF THE TERMINALS SHALL BE DIPPED 2mm IN THE SOLDER BATH OF 230±5°C FOR 3±0.5 SECONDS. 端子頂部被浸入錫焊池中 2mm 深，溫度為 230±5°C，時間為 3±0.5 秒。	THE AREA OF SOLDERING. SHOULD BE OVER 75%. 焊接面積要有 75%以上。	
4.2 RESISTANCE TO SOLDERING HEAT TEST 耐焊性試驗	SOLDER BATH METHOD: SOLDER TEMPERATURE 250±5°C IMMERSION TIME 3±0.5 SEC IMMERSION DEPTH UP TO THE SURFACE OF THE BOARD THICKNESS OF PRINTED WIRING BOARD 1.6mm DIMENSIONS OF COMPONENT HOLES IN THE PRINTED WIRING BOARD SHALL BEING ACCORDANCE WITH THOSE SPECIFIED IN THIS SPECIFICATION. 焊爐焊接的時候溫度控制在 250±5°C，過爐時間 3±0.5 秒，于(基板)厚度為 1.6mm 手焊方式 320±5°C，3±0.5 秒	WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. 本體無變形，能滿足于機械、電器性能。	
4.3 LIFE TEST 壽命試驗	WITHOUT LOAD: CONNECTION AND DISCONNECTION SHALL BE MADE WITH THE MATING PLUGS AND JACKS FOR 100,000 CYCLES AT A SPEED OF 10 TO 25 CYCLES/MIN. 無負荷： 將結合了的標準 plug(盡量要近于中心的)在 1 分鐘內以 15~18 的速度，進行 100,000 次拔動	(1) CONTACT RESISTANCE SHALL BE 200mΩ MAX. (2) MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. (1) 接觸電阻不能超于 200mΩ。 (2) 其它、滿足于機械、電器性能。	
4.4 HEAT TEST 耐熱試驗	THE JACK SHALL BE STORED AT A TEMPERATURE OF 85±2°C FOR 96 HOURS.AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE. 放置在溫度 85±2°C 中測試 96 小時后，再放置正常室溫中 1 小時來測定。	THERE SHALL BE NO DAMAGE ON APPEARANCE. MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. 外觀無異常，滿足于機械，電器性能。	

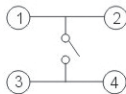
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4.5	COLD TEST 耐冷試驗	<p>THE JACK SHALL BE STORED AT A TEMPERATURE OF $-25\pm 3^{\circ}\text{C}$ FOR 96 HOURS. AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE.</p> <p>放置在溫度$-25\pm 3^{\circ}\text{C}$中 96 小時后,再放置常溫常濕中 1 小時來測定。</p>	<p>THERE SHALL BE NO DAMAGE ON APPEARANCE. MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED.</p> <p>外觀無異常, 滿足于機械, 電器性能。</p>
4.6	HUMIDITY TEST 潮濕試驗	<p>THE JACK SHALL BE STORED AT A TEMPERATURE OF $40\pm 2^{\circ}\text{C}$ AND A HUMIDITY OF 90% TO 96% FOR 96 Hr. THEN THE JACK SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITION FOR 1 Hr FOR OTHER PROCEDURES.</p> <p>放置 $40\pm 2^{\circ}\text{C}$.的相對濕度為 90~96% Hr 環境中 96 小時后,再將樣版放在正常環境 1 小時后進行測試。</p>	
4.7	STANDARD ATMOSPHERIC CONDITIONS 測試標準狀態	<p>UNLESS OTHERWISE SPECIFIED. THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS:</p> <p>(1) AMBIENT TEMPERATURE : 5°C TO 35°C (2) RELATIVE HUMIDITY : 45% TO 85% (3) AIR PRESSURE : 86Kpa TO 106Kpa</p> <p>在沒有指定的情況下測試溫度、濕度、氣壓如下:</p> <p>(1) 溫度為 $5\sim 35^{\circ}\text{C}$. (2) 濕度為 45%~85% . (3) 氣壓為 86Kpa~106Kpa .</p>	
4.8	PRACTICAL TEMPERATURE RANG 使用溫度範圍	<p>$-30^{\circ}\text{C}\sim +85^{\circ}\text{C}$. 在 $-30^{\circ}\text{C}\sim +85^{\circ}\text{C}$ 溫度內使用.</p>	



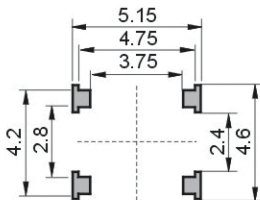
CAD FILE:



Circuit Diagram



P.C.B.Land Pattern



注:带*表示关键尺寸(4个)

				TOLERANCE UNLESS SPECIFIED		DONGGUAN KEMEI ELECTRONICS CO., LTD.				
				WITHIN: 1.5±0.1mm		ISSUE	DATE	DESCRIPTIONS OF REVISION		APPD.
				OVER: 1.5: ±0.2mm						
8										
7										
6										
5										
4	CONTACT	SUS	1	Ag CLAD	TITLE : TACT SWITCH		UNIT : mm	DRWG NO.:		
3	CASE	NYLON/BRASS STRIP	1	BLACK/Ag PLATED OVER Ni PLATED	MODEL: 4. 5X4. 5X0. 55		SCALE: 6:1	DWN. ZHOUYU	2001-3-24	
2	COVER	PET	1	CLEAR/WHITE	ALL MATERIALS MUST BE COMPLIANT TO ROHS			CHK'D FANGYING	2001-3-24	
1	KNOB	POM	1	BLACK				APPD. KANGXINAN	2001-3-24	
NO.	PARTS	MATERIALS	Q'TY	FINISH						