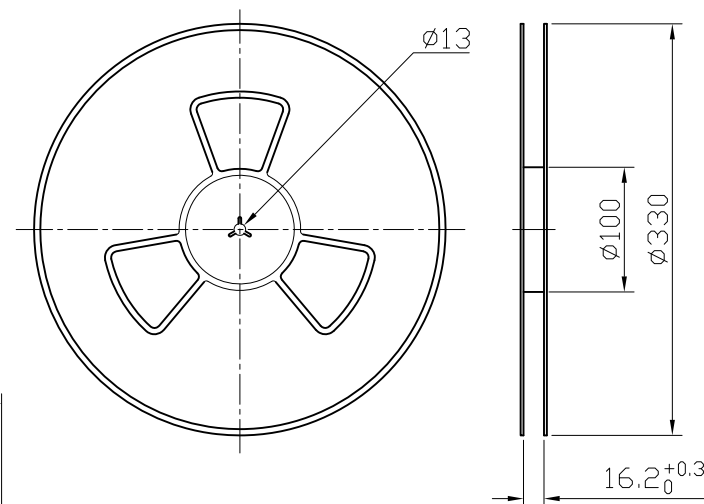
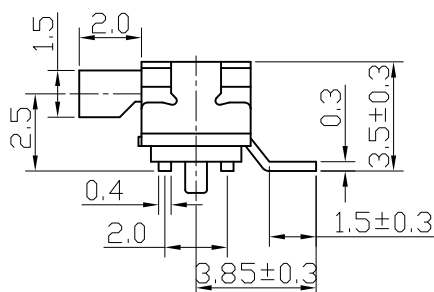
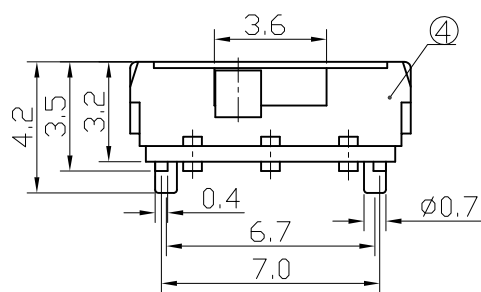
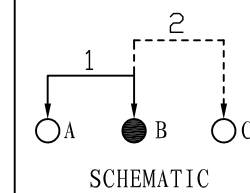
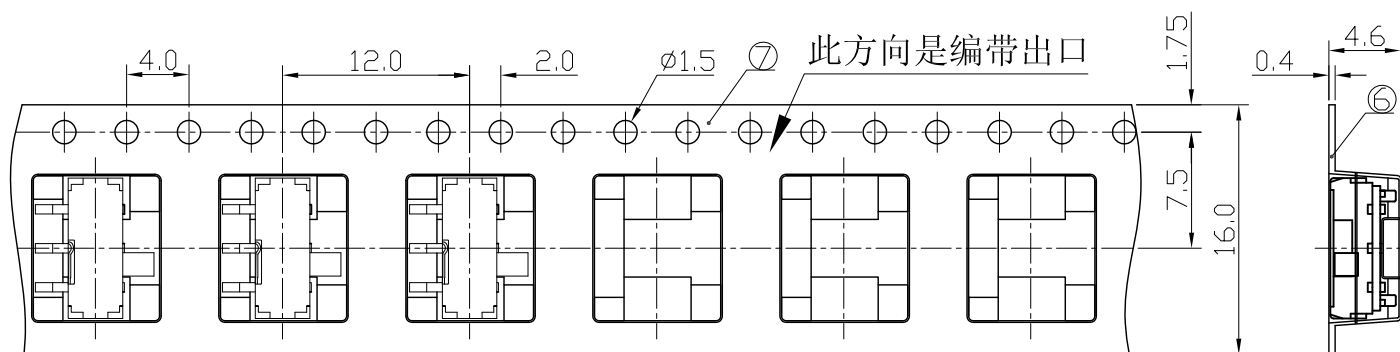


P. C. B LAYOUT



SCALE 1: 22



SCALE 1: 2

NOTE : COMPONENT LOAD PER
1, 000<REF> PCS. (一盘装1, 000PCS)

KD

TITLE : MINI SLIDE SWITCH

MODEL : MSK12D04-G2 TR (W028)

UNIT : MM		DWN.	张 艳	DATE	2013-06-24
SCALE : 3 : 1		CHK'D	刘 厚 俊	DATE	2013-06-24
VERSION	02	APPD.	周 丽 琼	DATE	2013-06-24



TOLERANCE
<=1.5mm ± 0.1
> 1.5mm ± 0.2
>=10.0mm ± 0.3



ANGLE TOL
± 2°

7	SEAL PLATE	PET	1	CLEAR
6	BREDE	ABS	1	CLEAR
5	CONTACT CLIP	PBS STRIP	2	Ag CLAD
4	CASE	PA6T	1	BLACK
3	COVER	SUS	1	NATURE
2	TERMINAL	BRASS STRIP	3	Ag PLATED
1	KNOB	PA6T	1	BLACK
NO.	PART NAME	MATERIAL	QTY.	FINISHING

<div></div> <div>SPECIFICATION</div> <div>承認書</div>		群達實業有限公司			
文件編號	DGKD/JS-MSK-015	版 本	A / 0	頁 碼	共 3 頁，第 1 頁
DESCRIPTION 產品系列：MINI SLIDE SWITCH				DRAWN BY 制訂：張 艷	
MODEL NO 產品型號：MSK12D04					
				CHECKED BY 核對：劉 厚 俊	
1. RATING 額定值：0.3A 6V DC					
2. FUNCTION 接觸型式：1P2T				APPROVED BY 審批：周 麗 琼	
3. TIMING 時間特性：NON-SHORTING					
4. ELECTRICAL CHARACTERISTICS 電氣性能規格：					
ITEM 項目		TEST CONDITIONS 測試條件		PERFORMANCE 性能	
4. 1	CONTACT RESISTANCE 接觸電阻	MEASURED AT SMALL CURRENT (100 mA OR LESS) 1000HZ 在微小電流 (100 mA) 以下測試		70mΩ MAX. 70 毫歐以下。	
4. 2	INSULATION RESISTANCE 絕緣電阻	APPLY A VOLTAGE OF 500V DC SHALL BE APPLIED FOR 1 MIN AFTER WHICH MEASUREMENT BE MADE: (1) BETWEEN CONDUCTORS NOT TO BE CONTACT (2) BETWEEN INDIVIDUAL TERMINALS AND FRAME 輸入 500V DC 電壓 1 分鐘，按以下接觸方法測試： (1) 不接觸的插腳之間 (2) 插腳與外殼之間		100MΩ MIN. 100 兆歐以上。	
4. 3	DIELECTRIC STRENGTH 耐電壓	AC 500V rms (50-60HZ) FOR 1 MIN TRIP CURRENT: 0.5mA (1) BETWEEN CONDUCTORS NOT TO BE CONTACT. (2) BETWEEN INDIVIDUAL TERMINLS AND FRAME 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) 不接觸的插腳之間 (2) 插腳與外殼之間		WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC. 沒有絕緣破壞等異常。	
5. MECHANICAL CHARACTERISTICS 機械性能規格：					
ITEM 項目		TEST CONDITIONS 測試條件		PERFORMANCE 性能	
5. 1	OPERATING FORCE 作動力			200gf±100gf	
5. 2	TERMINAL STRENGTH 端子強度	A STATIC LOAD OF 300gf SHALL BE APPLIED TO THE TERMINAL FOR 15 SEC. IN ANY DIRECTION . 在插腳前端任意一個方向加 300gf 力度測試，時間為 15 秒。		ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED WITHOUT DAMAGE OR EXCESSIVE LOOSENESS OF TERMINALS. 在插腳中沒有裂開、鬆動異常，滿足於機械，電氣性能。	



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文件編號	DGKD/JS-MSK-015	版 本	A / 0	頁 碼	共 3 頁, 第 2 頁									
6. ENDURANCE CHARACTERISTICS (耐久性):														
ITEM 項目		TEST CONDITIONS 測試條件	PERFORMANCE 性能											
6. 1	MECHANICAL-LIFE TEST 机械寿命	SWITCH SHALL BE SUBJECTED TO 10, 000 CYCLES AT A SPEED OF 20~30 PER MINUTE WITHOUT LOAD. 開關在無負荷的條件下以每分鐘 20~30 回的速度進行 10, 000 次的測試。	1. CONTACT RESISTANCE: $\leq 200\text{m}\Omega$ 2. INSULATION RESISTANCE: $\geq 50\text{M}\Omega$ 3. UNDER A VOLTAGE 500V AC (50Hz) WITHOUT DESTROYING AND LOSSING. 4. OPERATING FORCE $\pm 50\%$ SPEC. 5. NO DEFORMATION AND LOOSENESS 1. 接觸電阻: ≤ 200 毫欧 2. 絕緣電阻: ≥ 50 兆欧 3. 施加 50Hz500V 的交流電壓無擊穿和飛孤現象。 4. 作動力變化範圍規格值 $\pm 50\%$ 5. 開關外观无异常, 鉚合部分應牢固, 緊固部分應無鬆動。											
6. 2	SOLDERABILITY TEST 可焊性試驗	THE TOP OF THE TERMINALS SHALL BE DIPPED 2mm IN THE SOLDER BATH OF $240\pm 5^{\circ}\text{C}$ FOR 3 ± 0.5 SECONDS. 端子頂部被浸入錫焊池中 2mm 深, 溫度為 $240\pm 5^{\circ}\text{C}$, 時間為 3 ± 0.5 秒。	THE AREA OF SOLDERABILITY SHOULD BE OVER 75%. 焊接面積要有 75%以上。											
6. 3	RESISTANCE TO SOLDERING HEAT TEST 耐焊性試驗	1. THE CONDITION MENTIONED ABOVE IS THE TEMPERATURE ON THE MOUNTING SURFACE OF A PC BOARD. THERE ARE CASES WHERE THE PC BOARD'S TEMPERATURE GREATLY DIFFERS FROM THAT OF THE SWITCH, DEPENDING ON THE PC BOARD'S MATERIAL, SIZE, THICKNESS, ETC. CARE SHOULD BE TAKEN TO PRVENT THE SWITCH'S SURFACE TEMPERATURE FROM EXCEEDING 250°C . 測試報告是以 PC 板銅箔面作基準, 因 PC 板分開之溫差是直接受 PC 板之物料、大小、厚度等影響, 不論任何情況及條件都需避免防止開關之表面溫度超過 250°C 。 2. SOLDERING CONDITIONS DIFFER DEPENDING ON REFLOW SOLDERING MACHINE. YOU ARE REQUESTED TO VERIFY THE SOLDERING CONDITIONS THOROUGHLY BEFOREHAND. 條件變化是直接受回流焊接儀器影響, 請注意, 其儀器是否正常。 3. TEMPERATURE PROFILE. 溫度示意图。  <table border="1" data-bbox="419 1599 1050 1744"><thead><tr><th>SERIES 系列</th><th>A ($^{\circ}\text{C}$) 3s MAX</th><th>B ($^{\circ}\text{C}$)</th></tr></thead><tbody><tr><td>PA46 (PA6T)</td><td>250</td><td>230</td></tr><tr><td>PA66</td><td>240</td><td>200</td></tr></tbody></table>	SERIES 系列	A ($^{\circ}\text{C}$) 3s MAX	B ($^{\circ}\text{C}$)	PA46 (PA6T)	250	230	PA66	240	200	WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS. ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. 本體無變形, 能滿足於機械、電氣性能。		
SERIES 系列	A ($^{\circ}\text{C}$) 3s MAX	B ($^{\circ}\text{C}$)												
PA46 (PA6T)	250	230												
PA66	240	200												
6. 4	COLD TEST 耐冷試驗	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF $- 25\pm 3^{\circ}\text{C}$ FOR 48 HOURS. AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH MEASURE MENT SHALL BE MADE. 開關放置在溫度 $- 25\pm 3^{\circ}\text{C}$ 中 48 小時後, 再放置常溫常濕中 1 小時來進行測試。	THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. 外觀無異常, 滿足於機械、電氣性能。											
6. 5	HEAT TEST 耐熱試驗	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF $70\pm 2^{\circ}\text{C}$ FOR 48 HOURS. THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITIONS FOR 1 HOUR AFTER WHICH MEASURMENT SHALL BE MADE. 開關放置在溫度 $70\pm 2^{\circ}\text{C}$ 中測試 48 小時後, 再放置正常室溫中 1 小時來測定。	THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. 外觀無異常, 滿足於機械、電氣性能。											



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ITEM 項目		TEST CONDITIONS 測試條件			PERFORMANCE 性能
6.6	HUMIDITY TEST 潮濕試驗	THE JACK SHALL BE STORED AT A TEMPERATURE OF 40±2 °C AND A HUMIDITY OF 90% TO 95% FOR 96 HOURS. THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITION FOR 1 HOUR PROCEDURES BE MADE. 放置 40±2°C 的相對濕度為 90%~95% 環境中 96 小時後, 再將樣板放在正常環境 1 小時後進行測試。			THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. 外觀無異常, 滿足於機械、電氣性能。
6.7	STANDARD ATMOSPHERIC CONDITIONS 測試標準狀態	UNLESS OTHERWISE SPECIFIED, THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS: 1. AMBIENT TEMPERATURE: 5°C TO 35°C 2. RELATIVE HUMIDITY: 45% TO 85% 3. AIR PRESSURE: 86Kpa TO 106Kpa 在沒有指定的情況下測試溫度、濕度、氣壓如下: 1. 溫度為 5~35°C 2. 濕度為 45%~85% 3. 氣壓為 86Kpa~106Kpa			
6.8	PRACTICAL TEMPERATURE RANGE 使用溫度範圍	-16°C ~ +60°C 在 -16°C ~ +60°C 溫度內使用			
7.0	CONSERVATION TEMPERATURE 保存溫度	THE SWITCHES' STORE CONDITIONS REQUIREMENT AND STORE TIME LIMIT: 1. THE SWITCHES PACKED IN THE CARTON BOARD BOXES AND WOODEN BOXES CAN BE TRANSPORTED BY ANY KINDS OF VEHICLES, BUT NEED AVOIDING BEING STRICKEN BY RAIN, SNOW AND MECHANISM. 2. THE SWITCHES SHOULD BE KEPT UNDER THE BELOW CONDITIONS: THE TEMPERATURE IS KEPT WITHIN THE LIMITS OF SUBZERO THEN DEGREE CENTIGRADE TO FORTY DEGREE CENTIGRADE; THE RELATIVE HUMIDITY SHOULD BE NOT MORE THAN EIGHTY PERCENT AND THERE IS NO ACID, ALKALI, SULFIDE, OZONE, ALKALINE AIR AND ANY OTHER POISONOUS GAS AROUND THE STOREHOUSE. 開關保存條件要求和期限: 1. 裝有產品的紙箱或木箱允許用任何方法運輸, 唯需避免雨雪直接淋襲和機械撞擊。 2. 產品應存放在環境為 -10 ~ +40°C, 相對濕度不大於 80%, 周圍空氣不應有酸、堿、硫化物、臭氧、氨氣及其它對產品有害氣體的倉庫內。			
8.0	CHINA OF ORIGIN 原產國	MADE IN DONG GUAN CHINA. 中國東莞製造。			
9.0	ROHS COMPLIANT 符合 RoHS 指令	ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT, THE USE OF PROHIBITED SUBSTANCE IS LIMITED TO: 1. Cd <100ppm; 2. Pb, Hg, Cr(VI), PBB AND PBDE <1000ppm. 3. INCLUDE THE RANGE OF THAT RoHS RELEASE. 電子電氣設備中限制使用某種特定有害物質, 禁用物質允許最大含量值的 MCV: 1. Cd 為 <100ppm; 2. Pb, Hg, Cr(VI), PBB AND PBDE 為 <1000ppm. 3. 包括 RoHS 最新豁免的範圍。			MEET THE ABOVE REQUIREMENT. 符合要求。