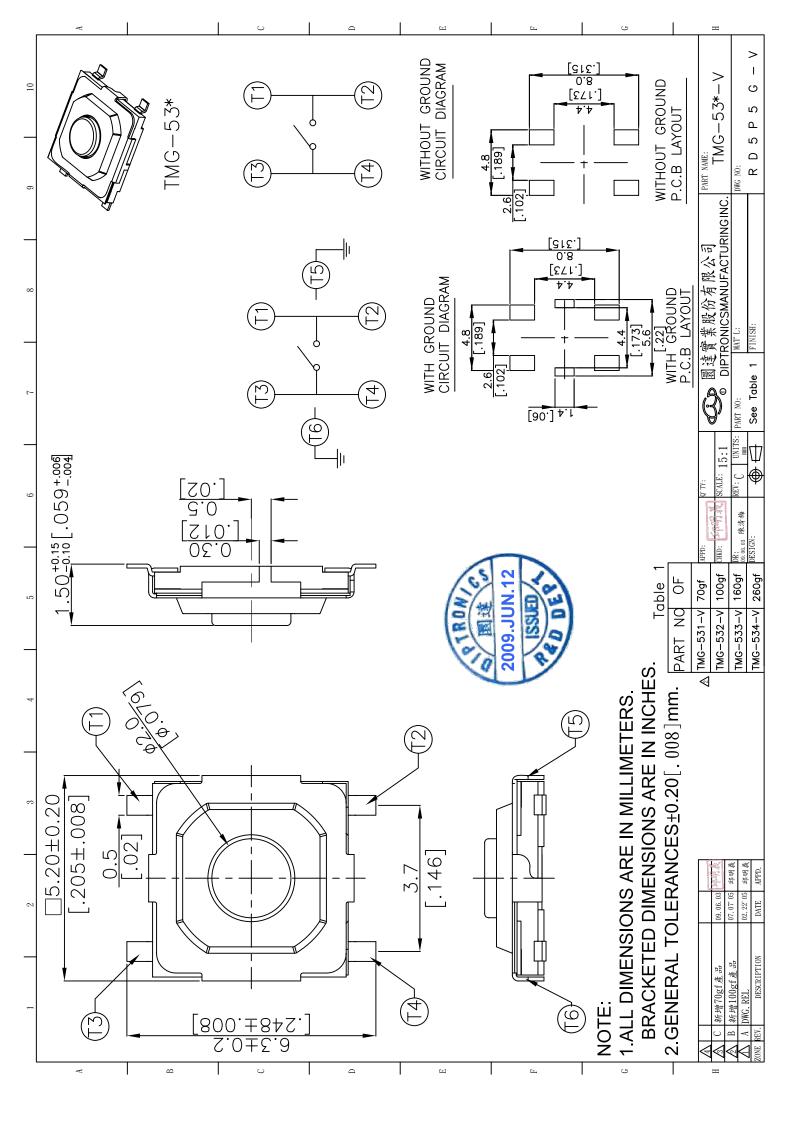
ITEM	DESC.	Q'TY	MATERIALS	TREATMENT	REMARK	
1.	METAL STEM	1	BRASS	NICKEL PLATED	-	
2.	COVER	1	=NICKEL SILVER S = STAINLESS STEEL	□=NONE S =WITH SILVER PLATING	-	
3.	ADHESIVE TAPE	1	TEFLON	NONE	-	
4.	TERMINAL	1	PHOSPHOR BRONZE	WITH SILVER PLATING	-	
5.	CONTACT	1	STAINLESS STEEL	WITH SILVER CLADDING	-	
6.	BASE	1	HIGH – TEMP THERMOPLASTIC LCP	MOLDED BLACK	-	
T		V	Package: T/R=Tape & Reel ROHS & Lead Free Sold S = STAINLESS STEEL S = STAINLESS STEEL Operating Force: 2=100g 3=160g 4=260g Toltal H: 2=0.8mm 3=1.5mm	L TMC 52	*	
			☐=Cover Nickel Silver S =Cover Stainless ste			
	Prod. Series: G=With Ground Terminals E = Ground pin in Central TERMINATION TYPE: M = Gull Wing J = J Bend					
C 依技	通 09007 執行變更		TITLE: APPD :			
B Li	^{盖新增不銹鋼鍍銀} 邱明義		TACTILE SWITCH TYPE CHKD.:			
АС	DWG.REL. 邱明義		PROD. NO. : T	□□-5□□−□-V-□ PR .: PAGGY		
RVE.	ECO NO. APPD.		FILE NO. : E-V-CT1	16 REV:C SHEET:		





1. Style

This specification describes"TACTILE SWITCH", mainly used as signal switch of electric devices, with the general requirements of mechanical and electrical characteristic.

1.1 Operating Temperature Range : -25 °C ~+70°C

1.2 Storage Temperature Range : -30°C ~+80°C

2. Current Range: 50mA, 12V DC

3. **Type of Actuation:** Tactile feedback

4. Test Sequence:

	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS	
APPEARANCE	1	Visual Examination	There shall be no By Visual Examination choke without any out pressure & testing serviceability of the product.		
	2	Contact Resistance	Applying a static load 1.5-2 times the operating force to the center of the stem, measurements shall be made with a 1 kHz small current contact resistance meter		
PERFORMANCE	3	Insulation Resistance	Measurements shall be made following application of 500 V DC potential across terminals and cover for 1 minute ± 5 seconds		
	4	Dielectric Withstanding Voltage	250 V AC(50Hz or 60Hz) shall be applied across terminals and cover for 1 minute There shall be no breakdown or flashove		
CTRI	5	Capacitance	1 MHz ±10 kHz 5 pF max.		
ELECTRIC	6	Bounce	3 to 4 operations at a rate of 1 cycles per second 5 m seconds material seconds materials are seconds materials. Synchroscope solutions at a rate of 1 seconds materials.		



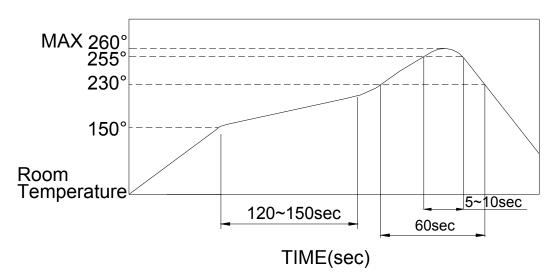
)E	7	Operating Force	Applied in the direction of operation	OF	100±50g [0.98±.49N]	160±50g [1.568±.49N]	260±50g [2.548±.49N]	
	8	Stroke	Placing the switch such that the direction of switch operation is vertical and then gradually increasing the load applied to the stem, the stroke distance for the stem to come to a stop shall be measured	0.25+0.1/-0.2mm				
PERFORMANCE	9	Stop Strength	Placing the switch such that the direction of switch operation is vertical, a static load of 3 kgf(29.4N) shall be applied in the direction of stem operation for a period of 15 seconds	1)As shown in item 4~7 2)Contact Resistance: 200mΩ Max 3)Insulation Resistance: 10MΩ min				
MECHANICAL P	10	Solder Heat Resistance	PCB is 1.6mm in thickness SMT Type ~TMG(E) \ TJG(E)-5 Series(4/4) 2)Contact Resistance: 200mΩ Max 3)Insulation Resistance 10MΩ min				:	
	11	Vibration	Shall be vibrated in accordance with Method 201A of MIL-STD-202F 1.Swing distance:1.5mm 2.Frequency: 10-55-10Hz in 1-min/cycle. 3.Direction: 3 vertical directions including the directions of operation 4.Test time: 2 hours each direction	201A of 2F ance:1.5mm : 10-55-10Hz in e. 3 vertical directions ne directions of 2)Contact Resistance: 200mΩ Max 3)Insulation Resistance: 10MΩ min			:	
MECHANICAL PERFORMANCE	12		Shall be shocked in accordance with Method 213B condition A of MIL-STD-202F 1.Acceleration; 50G 2.Action time:11±1m seconds 3.Testing Direction: 6 sides 4.Test Cycle: 3 times in each direction	Ditto				

Сотрнат	%	TMG(E)-5□□	、TJG(E)-5□□V SPECIFICATION	FILE No. : E-V-AT05 REV. : C Page : 3 / 4			
1 age : 3 / 4							
DURABILITY	13	Operating Life	Measurements shall be made following the test forth below: 1. 5 mA, 5 VDC resistive load 2.Applying a static load the operating force to the center of the stem in the direction of operation Static Load = OF max 3.Cycle of Operation: 1,000,000 cycles min. For 100 \ 160gf 200,000 cycles min. For 260gf	 1.As shown in item 4 \ 5 2.Operating force:±50% of initial force . 3.Contact Resistance: 10Ω Max 4.Insulation Resistance: 10ΜΩ min 5.Bounce: 10 m seconds Max 			
	14	Resistance Low Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 hour before the measurements are made: 1.Temperature:-25±3°C 2.Time: 96 hours	 1)As shown in item 4~7 2)Contact Resistance: 200mΩ Max 3)Insulation Resistance: 10MΩ min 			
WEATHER-PROOF			Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 hour before the measurements are made: 1.Temperature:80±2°C 2.Time: 96 hours	Ditto			
Λ	16 Humidity Resistance		Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 hour before the measurements are made: 1)Temperature:40±2°C 2)Relative Humidity: 90~95% 3) Time: 96 hours	Ditto			

RoHS Compliant		FILE No.	:	E-\	/-AT	05
Compilant	$TMG(E)-5$ \sim $TJG(E)-5$ \sim V SPECIFICATION	REV.	:		С	
		Page	:	4	1	4

5. SOLDERING CONDITIONS:

Condition for Soldering $TMG(E) \cdot TJG(E)$ -5 Series



■ The condition mentioned above is the temperature on the Cu foil of the PCB surface. There are cases where board's temperature greatly differs from switch's surface be used not to allow switch's surface temperature to exceed 260° C.

■ Manual Soldering

Soldering Temperature	Max.350°C		
Continuous Soldering Time	Max. 5 seconds		

■ Precautions in Handling

- 1.Care should be exercised so that flux from the upper part of the printed circuit board does not adhere to the switch.
- 2. Except for washable type do not wash the switch body.
- 3. Press direction & illustrated drawing:

