SH	Technical Standards	Date	11/21/2012
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1. Style:

This specification describes toggle switch mainly used as small current and signal switch of electric device with the general required of mechanical and characteristics.

Operating and storage temperature range:-30°C \sim +85°C

2. **Rated Current**: 5A,125VAC/3A,250VAC

3. **Type of Actuation**: Actuated by sliding.

4. Programer of test:

peculiarity	ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENTS		
	1	Visual Examination		There shall be no defect that affect the function of the product		
Contact Resistance Insulation Resistance Dielectric			 ①To be measured between the two terminals associated with each switch pole. ②Measurements shall be made with a 1kHz shall current contact resistance meter. 	10mΩ MAX(initial)		
CTRIC C	3	Insulation Resistance	500VDC,1min±5sec	1000MΩ MIN		
ELEC	4	Dielectric withstanding voltage	1500VAC (50Hz or 60 Hz) shall be applied between all the adjacent terminals and between the terminal and the frame for 1 minute.			
MECHANICAL CHARATERISTICS	5	Operating Force	Applied in direction operation	10N max		
S	6	Stop Strength	A static load of 30N is applied in the operating direction and pulling direction operated for a period of 30 seconds.	[There shall be no sign of damage]		



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MECHANICAL CHARATERISTICS	7	Soldering Heat Resistance	 □ through hole type (1) Soldering Temperature : 260°C (2) Duration of Solder Immersion : 5±1 sec (3) Frequency of Soldering Process,2 times Max (PCB is 1.6mm in thickness) 	As show in item 2~6
DURABILITY	8	Operation Life	Measurements shall be made following the test set forth below: ①3A,250VAC resistive load ②Rate of Operation: 6~8 cycles/minute ③Cycle of Operation: 6000cycles	As show in item 3.4
	9	Resistance Low Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before measurements are made ①Temperature: -30±3°C ②Time: 48 hours	As show in item 2~6
WEATHER-PROFF	10	Resistance high Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before measurements are made ①Temperature: 85±3°C ②Time: 48 hours	As show in item 2~6
11 Resistance Humidity		Resistance Humidity	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before measurements are made ①Temperature: 40±2°C ②Relative Humidity: 90-95% ③Time: 48 hours	1.As show in item 4~6 2. Contact Resistance:100mΩ max 3.Insulation Resistance:10MΩ min

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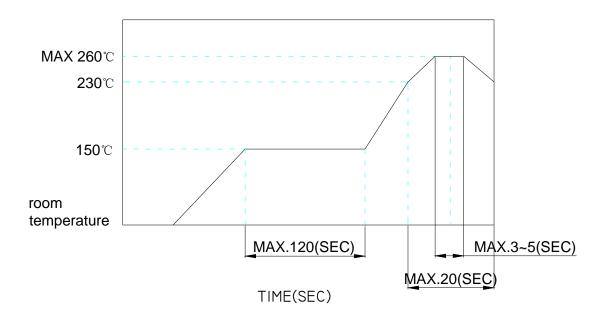
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5. Safety Approval:

- 5.1 This series carry the UL approvals and c-UL(the same effect with CSA)
- 5.2 The File no. of UL:E123142
- 5.3 The applying category no, of UL:T80-T
- 5.4 The File no. of CQC:CQC03002007881
- 5.5 The applying category no. of CQC:T80-T1 \cdot T80-T2 \cdot T80-T3 \cdot T80-T4

6. Soldering Condition

Condition for soldering



Manual soldering:

Soldering Temperature	MAX.350°C
Continuous Soldering Time	MAX.3 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. Don't wash switch body •

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7. Material:

7.1 CASE: diallyl phthalate(DAP)(UL94-V0)
7.2 ACTUATOR: Copper alloy, chrome plated
7.3 BUSHING: Copper alloy, nickel plated

7.4 HOUSING: Stainless Steel

7.5 SWITCH SUPPORT: Brass, tin plated

7.6 END CONTACTS: Copper alloy, silver or gold plated

7.7 CENTER CONTACTS & ALL TERMINALS: Copper alloy, silver or gold plated

7.8 TERMINAL SEAL: Epoxy

7.9 HARDWARE: Nut: copper alloy, nickel plated

Locking Ring & Lock washer: Cold-rolled steel \lq nickel plated

8. PART NUMBERING OPTION:

Iodel No.		Switch	ning Po	sition
SPST	T8013(2P)	ON	NONE	OFF
SPST	T8013(2P2)	OFF	NONE	ON
SPDT	T8013			_
DPDT	T8011			
3PDT	T8301	ON	NONE	ON
4PDT	T8401			
SPDT	T8013A			
DPDT	T8011A			
3PDT	T8303	ON	NONE	(ON)
4PDT	T8403			
SPDT	T8014			
DPDT	T8012	_		
3PDT	T8305	ON	OFF	ON
4PDT	T8405	1		
SPDT	T8014A	_		
DPDT	T8012A	_		
3PDT	T8307	(ON)	OFF	(ON)
4PDT	T8407			
SPDT	T8014B	_		
DPDT	T8012B			
3PDT	T8309	ON	OFF	(ON)
4PDT	T8409	1		
SP3T	T812	ON	ON	ON
DP3T	T845			
SP3T	T812B	ON	ON	(ON)



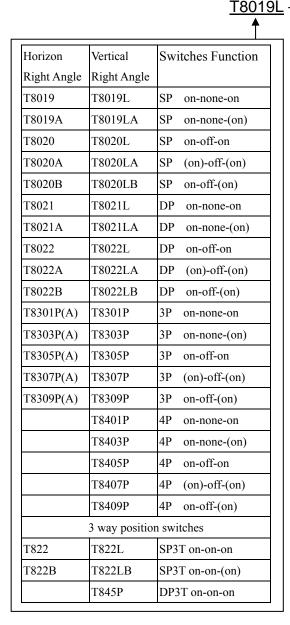
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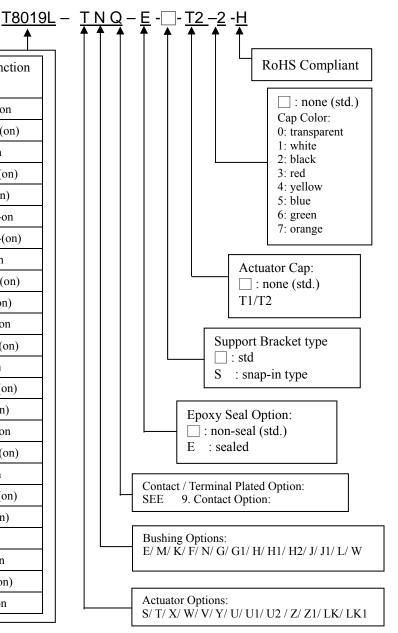
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9. OPTION:

Contact Option:

OPTION			
OPTION	CONTACT PLATING	TERMINAL PLATING	RATING
CODE	CONTACT PLATING	TERMINAL PLATING	RATING
Q	SILVER	SILVER	5A,125VAC or 28 VDC
Q			3 A , 250 VAC
R	GOLD	GOLD	0.4 VA MAX @20 V AC OR DC
G	GOLD OVER SILVER	GOLD	5A,125VAC o r 28 VDC/3 A , 250 VAC
			0.4 VA MAX @20 V AC OR DC
K	GOLD	TIN	0.4 VA MAX @20 V AC OR DC