	2MD1 T1 SERIES SPECIFICATION		QW-1002	REV :
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signal switch of e and electrical cha	n describes "Sub−Miniature Tog lectric devices, with the gener aracteristic. ture Range : -30 °C~+85°C.			
Inrush current max Dielectric streng Operating life at Contact Rating:	max. : AC/DC : 120V/28V. x : DC : 60A. th(60HZ, 1 min) ; 1.5KV. max.load and at max. inrush c lating Standard :	current:6000	operations.	
	Plating			
Q=Silver	Fixed Terminal : Silver plated of alloy. Movable contact : Silver plated			
	copper alloy.			
C=Gold over silver	Fixed Terminal : Copper alloy w plated over go plate.	old	0100340	
C=Gold over silver S=Silver, tin-lead	Fixed Terminal : Copper alloy w plated over go	old with silver old plate. 2 with silver ead. l over	umps @120VAC 28VDC. umps @250VAC.	

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Plating		Rating
R=Gold	Fixed Terminal : Copper alloy with gold Plate over nickel plate. Movable contact : Copper alloy with gold Plate over nickel plate.	0.4 VA Max.
G=Gold, tin-lead	Fixed Terminal: Copper alloy with gold plated over nickel plate, tin-lead. Movable contact: Copper alloy with gold plated over nickel plate.	@20VAC or DC Max.

3. Type of Actuation: Sub-Miniature Toggle Switches.

4. Test Sequence:

	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
	1	Visual Examination	5	There shall be no defects that affect the serviceability of the product.
ELECTRIC	2	Contact Resistance	@2-4VDC 100mA. For both silver and gold plated contacts.	20mΩ Max
PERFORMANCE	3	Insulation Resistance	Measurements shall be made following application of 1000 V/ DC 100mA potential across terminals and cover.	1000M O _min/1000V
	4	Dielectric Withstanding Voltage	1000 VAC(50Hz or 60Hz) shall be applied across terminals and cover for 1 minute.	There shall be no breakdown or flashover.



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	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
	5	Solder Heat Resistance		①Shall be free from pronounced backlash and falling-off or breakage terminals @As shown in item 2~4.
MECHANICAL PERFPRMANCE	6	Vibration	 Shall be vibrated in accordance with Method 201A of MIL-STD-202F ①Frequency: 10-55-10Hz in 1-min/cycle. ②Direction: 3 vertical directions including the directions of operation ③Test time:2 hours each direction. 	As shown in item 2~4
NCE	7	Shock	<pre>Shall be shocked in accordance with Method 213B condition A of MIL-STD-202F ①Acceleration; 5kg ②Action time: 11±1m seconds. ③Testing Direction: 6 sides. ④Test Cycle: 3 times in each direction.</pre>	As shown in item 2~4
	8	Actuation Force	MODEL-1305N MECHANICAL TEST 500gram 、1000gram、 2000gram.	At for test the force. Force:300±100grams.
OPERATING LIFE	9	Operating Life	 Measurements shall be made following the test forth below: D 3A, 120VAC resistive load-silver plated. 1A, 250VAC resistive load-silver plated. 0. 4A, 20VAC resistive load-gold plated. 2 Rate of Operation: 6-80peration cycles per minute. 3 Electronics Life Test: 6,000 cycles. 	Strength: 1000V. ② Insulation Resistance: 1000MΩ min.
			Mechanical Life Test: 30,000 cycles.	Contact Resistance: 20mΩ Max.



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	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
HUMIDITY RESISTANCE	10	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: ①Temperature:-40±3℃ ②Time:96 hours.	As shown in item 2~4.
	11	Resistance High Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made: ①Temperature:85±2°C ②Time:96 hours.	 ① As shown in item 3~4. ② Insulation Resistance: 1000MΩ .
	12	Resistance Humidity	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made: ①Temperature:40±2°C ②Relative Humidity:90~95% ③Time:96 hours.	<pre>①Contact Resistance: 20mΩ Max. ②Insulation Resistance: 1000MΩ min.</pre>
	13	The Salt Testing	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made: ①Temperature:35±2°C ②The ratio of salt-water: 5% ③The spray amout of salt- water: 1~2 ml/h. ④ Time:48 hours.	The testing standard based on bubble, crack, And magnifying glass with gauge.

