Dailywell Electronics Co.,Ltd.

2TE DX T1 Series SPECIFICATION	Document No	QW-1002	REV : A
ZIE DA II SEIIES SPECIFICATION	Page	Page 1 of 5	Pb

1. Style:

This specification describes "Sealed Sub-Miniature Toggle Switches" mainly used as signal switch of electric devices, with the general requirements of mechanical and electrical characteristic.

Operating Temperature Range : $-20^{\circ}C \sim +85^{\circ}C$.

2. Contact Rating:

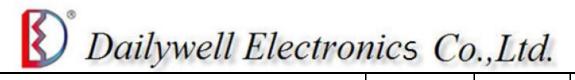
Gold Plating Standard:

	Plating	Rating
R=Gold	Fixed Terminal : phosphor bronze gold-plated over nickel barrier. Movable contact:phosphor bronze gold-plated over nickel barrier.	
G=Gold, pure-tin	Fixed Terminal : phosphor bronze gold-plated over nickel barrier, pure-tin. Movable contact:phosphor bronze gold-plated over nickel barrier.	

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

4. Test Sequence:

	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
ELI	1	Visual Examination	By Visual Examination check without and out pressure & testing.	There shall be no defects that affect the serviceability of the product.
ELECTRIC F	2	Contact Resistance	@2-4VDC 100mA. For both gold plated contacts.	50mΩ Max.
PERFORMANCE	3	Insulation Resistance	Measurements shall be made following application of 500 V/ DC 100mA potential across terminals and cover for 1 minute.	1000MΩ min/500V
	4	Dielectric Withstanding Voltage	500 VAC(50Hz or 60Hz) shall be applied across terminals and cover for 1 minute.	There shall be no breakdown or flashover.



2TE DX T1 Series SPECIFICATION

Page

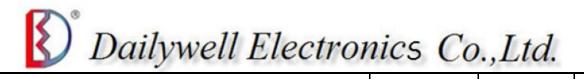
Document No

QW-1002 Page 2 of 5

Pb

REV : A

	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
N N	5	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
MECHANICAL PERFPRMANCE	6 Shock Shall be shocked in accordance with Method 213B condition A of MIL-STD-202F ①Acceleration:50g ②Action time:11±1m seconds. ③Testing Direction:6 sides. ④Test Cycle:3 times in each direction.		As shown in item 2~4	
	7	Actuation Force	MODEL-1305N MECHANICAL TEST 500gram、 1000gram、2000gram.	Please see the list as below.
OPERATING LIFE	8	Operating Life	 Measurements shall be made following the test forth below: ① Max. 48 V AC/DC, 0, 4 VA / max. 50mA resistive load—gold plated. ② Rate of Operation: 6-8operation cycles per minute. ③ Electronics Life Test: 40,000 cycles. 	① Dielectric



2TE DX T1 Series SPECIFICATION

Page

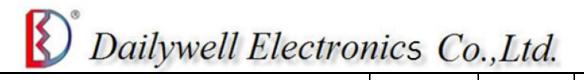
Document No

QW-1002

Page 3 of 5

REV : A

	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
	9	Resistance Low	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:-20±3°C. ②Time:96 hours.	
HUMI	10 Resistance Hi 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℃ ②Time: 96 hours.	
HUMIDITY RESISTANCE	11	Resistance	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.	
	12		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 amount of salt- water: 1~2 ml/h. ④ Time: 48 hours.	The testing standard based on bubble, crack, and magnifying glass with gauge.



2TE DX T1 Series SPECIFICATION

Page

Document No

QW-1002

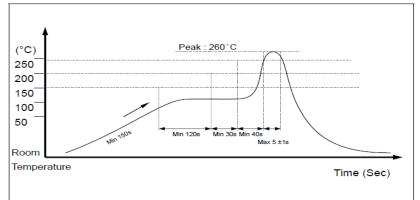
Page 4 of 5

REV : A

HU	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
HUMIDITY RESISTANCE	13	Test of IP 67	Protected against the effects of Temporary immersion in water. (1m below the surface of the water for a duration of 30 min)	IP67 According to EN 60529:1991+A1:2000 IEC 60529:2001
HSF	14	HSF	Refer RoHS Standard: The electronic electrical machinery product limits with six big chemical materials.	Cd : 100ppm Pb : 1000ppm Hg : 1000ppm Cr6+ : 1000ppm PBB 、 PBDE : 1000ppm
SOLDER HEAT RESISTANCE	15	WAVE SOLDERING	 WAVE SOLDERING : DSoldering Temperature : 260±5°C. Duration of Solder Immersion : 5 seconds Max. ③Frequency of Soldering Process 2 times max. (PCB is 1.6mm in thickness) 	①Shall be free from pronounced backlash and falling-off or breakage terminals @As shown in item 2~4.

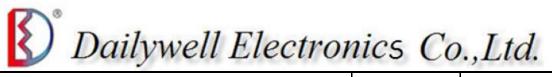
5. SOLDERING CONDITIONS :

Temperature Profile



Precautions in Handling

Care should be exercised so that flux from the upper part of the printed circuit board does Not adhere to the switch.



2TE DX T1 Series SPECIFICATION	Document No	QW-1002	REV : A
ZIE DA II SEIIES SPECIFICATION	Page	Page 5 of 5	Pb

6. Actuation Force List: (Actuator Type: T1)

		POS.1	PO	s.2	POS.3
2TE MODEL	2TE Function		←		
2TED1	ON-NOME-ON	250±100gf			250±100gf
2TED2	ON-NOME-MOM	Max 600gf			
2TED3	ON-OFF-ON	Min 85gf	300±120gf		Min 85gf
2TED4	MOM-OFF-MON		Max 600gf		
2TED5	ON-OFF-MON	Min 85gf	250±100gf	Max 600gf	