

NOTE

1. OPERATING FORCE :130/160/250±50gf

2. TRAVEL : $0.25^{+0.2}_{-0.1}$ m/m

3. CONTACT RESISTANCE : $100m\Omega$ MAX

4. GENERAL TOLERANCE : ±0.3

6. L: 4.3/5/6/7.3/8/8.5/9.5/12mm 12.5/13/13.5/16.2/17.0mm

PAR	ON TS	PART NA	ME	Q'TY	MAT	ERIAL	STANDARD	DISPOSITION	REMARKS	
A A				IGON-					CH	
A			AF	PPD	CHKD	DSGD				
A				Xh	N	finely				
A			1	7')	Ium		MODEL	TACTS60		
NO		CORRECTION					1AC1560			

1. RATINGS

12V DC, 50mA

2. MECHANICAL SPECIFICATIONS

2.1 Actuating Force

2.2 Return Force

2.3 Stop Strength

2.4 Travel

2.5 Arrangement of Action

2.6 Operating Temperature Rang

2.7 Storage Temperature Range

2.8 Stem withdrawal Force

As per individual specification

Greater than 50gf

Greater than 3kgf (for 3 seconds)

0.25 +0.2 mm

Tactile feed - back

-30°C ~ 80°C, 45 ~ 85%RH

-35℃ ~ 85℃ However, 96 hours maximum for continuous storage

over a range -20°C ~ 30°C and range 70°C ~ 80°C

Greater than 500gf (pull vertically to the opposite direction of

stem operation)

3. ELECTRICAL SPECIFICATIONS

3.1 Contact Arrangement

3.2 Contact Resistance

single pole, single throw

Less than 100mΩ when tested by the voltameter method at 5V DC

10mA, or by an ohmmeter allowing a small current at 1000Hz

(measurements to the made with a 100, 130, 160 ± 30 gf, 250 ± 50 gf load

applied vertically at the center of switch)

3.3 Insulation Resistance

3.4 Dielectric Strength

3.5 Bounce

Greater than 100MΩ (100V DC insulation resistance meter)

Capable of withstanding 250V AC, for 1 (one) min.

Less than 10msec (the key shall be struck lightly vertically at its center

at a uniform cycling rate of 3 operations per second)

4. ENDURANCE

4.1 Operating Life

Following 50,000 cycles of operation cycling rate (2 operations per sec.)at a force of depression not exceeding 160gf with a resistive load supplying 12V DC, 50mA, the following requirements shall be satisfied:

4.1.1 Actuating Force

4.1.2 Contact Resistance

4.1.3 Bounce

4.2 Moisture Resistance

Plus or minus 50% of the initial force

Less than 100mΩ

Less than 20mΩ

Following exposure to a 60 °C ± 2 °C, 90 ~ 95%RH, environment in a test chamber for 96 hours and then, out of the chamber, to room condition

of normal temperature and humidity for 30 minutes, the requirements

set forth below shall be met.

4.2.1 Insulation Resistance

4.2.2 Dielectric Strength 4.2.3 Contact Resistance

4.3 Heat Resistance

Greater than 10MΩ

Same as Item 3.4

Same as Item 3.2

Following exposure to an 85°C environment in a test chamber for 96 hours and then, out of the chamber, to room condition of normal

temperature and humidity for 30 minutes, the requirements in Items

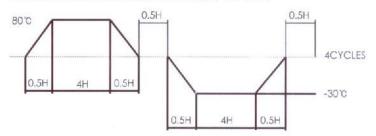
2 and 3 shall be satisfied.

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S/W TYPE	TACT S/W	P. A.	10	1/8/11	. /
MODEL NO.	TACTS60	James	Non	WH	1/
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4.4 Resistance to Low Temperature

Following exposure to a -40°C environment in a test chamber, to room condition of normal temperature and humidity for 30 minutes, the requirements in Items 2 and 3 shall be met.

4.5 Thermal Cycling



Following 5 cycles of a thermal cycling test, on cycle of which is prescribed in the diagram above, the requirements in Items 2 and 3 shall be met.

4.6 Shock Resistance

Following application of an impact shock of 30G in accordance with the method 205, MIL - STD - 202, the requirements in Items 2 and 3 shall be met.

4.7 Vibration Resistance

Following the test conducted according to the method 201, MIL - STD -202, the switch under test shall conform to the requirements in Items 2 and 3 without any sign of defect both in appearance and actuation.

5. AUTOMATIC SOLDERING CONDITIONS (in case he automatic flow soldering is to be used)

5.1 Soldering Temperature

230°C max

5.2 Soldering Time

Continuous dipping duration shall not exceed 5 second.

5.3 Permissible Soldering Times

2 time max

(twice soldering would be dipped after the temperature goes down

to a normal temperature)

5.4 Preheat Temperature

100°C max

(circumferential temperature of the printed writing board)

5.5 Preheat Time

45 seconds max

5.6 Flux Streaming

Flux streaming shall be controlled so that it shall not swell beyond

the printed writing board where components are installed.

5.7 Other Precautions

- (1) Flux shall not be applied to switch terminals and the part mounting surface of the P.W. board before soldering.
- (2) Do not wash to switch after soldering.

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