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1. GENERAL MATTERS

1.1 Application : This specification is applied to low current circuit tactile switch for electronic equipment.

1.2 Operating temperature range : -20 ~ 70℃, 45 ~ 85% RH

1.3 Storage temperature range : -30 ~ 80℃. However, 96 hours maximum for continuous storage over a range -20 ~ -30℃ and a range 70 ~ 80℃.

1.4 Test conditions : The standard test conditions shall be 5 ~ 35℃ in temperature, 45 ~ 85% RH and 860 ~ 1060mbar in atmospheric pressure.
Should any doubt arise in judgement, tests shall be conducted at 20±2℃, 65±5% RH and 860 ~ 1060mbar.

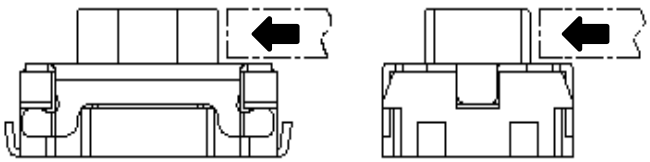
2. RATED VOLTAGE AND CURRENT.
DC 12V 50㎃

3. ELECTRICAL PERFORMANCE

	PROPERTY	TEST CONDITIONS	PERFORMANCE
3.1	Contact arrangement		* 1 pole, 1 throw.
3.2	Contact resistance	Measured at DC 5V 10㎃ or by ohmmeter allowing a small current at 1KHz with a load of 150% of the actuating force.	* Less than 100mΩ.
3.3	Insulation resistance	DC 100V is applied between terminals and between terminals and earth for 1minute ±5seconds.	* greater than 100MΩ.
3.4	Dielectric strength	AC 250V (50 ~ 60㎐) is applied between terminals and between terminals and earth for 1 minute.	* No insulation defect shall be observed.

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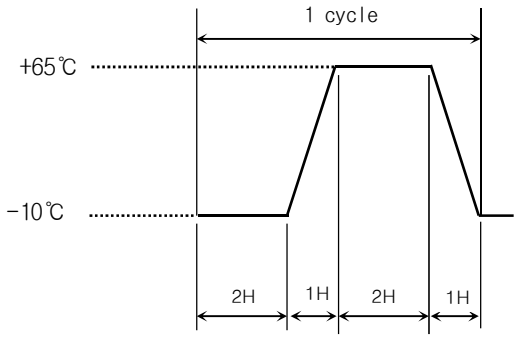
4. MECHANICAL PERFOMANCE

	PROPERTY	TEST CONDITIONS	PERFORMANCE
4.1	Actuating force	A gradually increasing load is applied to the center of the button stem.	* As per individual manufactured drawing.
4.2	Return force	After actuating, the load is gradually decreased until the stem returns to its free position.	* Greater than 30gf.
4.3	Stop strength	A static force of 3 Kgf shall be applied to the direction of operation for 3 seconds.	* Shall be free from mechanical and electrical abnormalities.
4.4	Stem withdrawal force	A static load of 500gf is applied to the direction of pulling for 3 seconds.	* Shall be free from mechanical and electrical degradation.
4.5	Side strength	A static force of 300gf shall be applied to the orthogonal direction of operation for 3 seconds. 	* Shall be free from mechanical and electrical degradation.
4.6	Travel		* 0.2±0.1mm.
4.7	Arrangement of action		* Tactile feed-back.

5. DURABILITY

	PROPERTY	TEST CONDITIONS	PERFORMANCE
5.1	Operating life	The test in conducted according to the below. (1) DC 12V 50mA resistive load (2) Rate of operation : 120 cycle/min (3) Actuating force : 150% of actuating force (4) Operating cycle : As per individual manufactured drawing.	* Contact resistance : 200mΩ max. * Insulation resistance : 10MΩ min. * Actuating force : within ± 30% of the initial value.

6. WEATHER PROOF

	PROPERTY	TEST CONDITIONS	PERFORMANCE
6.1	Cold heat proof	After testing at -30℃ for 96hours. the sample is allowed to stand under normal temperature and humidity conditions for 1hour and measurement is performed within 1hour after that. Water drops should be wiped off.	* The requirement in item 3 and 4 shall be satisfied.
6.2	Dry heat proof	After testing at 85℃ for 96hours. the sample is allowed to stand under normal temperature for 1hour and measurement is performed within 1 hour after that.	* The requirement in item 3 and 4 shall be satisfied.
6.3	Damp heat proof	After testing at 60±2℃ and 90 ~ 95% in relative humidity for 96hours, the sample is allowed to stand under normal temperature and humidity conditions for 1hour and measurement is performed within 1hour after that. Water drops should be wiped off.	* Insulation resistance : 10MΩ min. * The others, The requirement in item 3 and 4 shall be satisfied.
6.4	Thermal cycling	 After the test conducted under 5 cycles the sample is allowed to stand under normal temperature and humidity conditions for 1 hour, and the measurement is performed within 1 hour.	* The requirement in item 3 and 4 shall be satisfied.

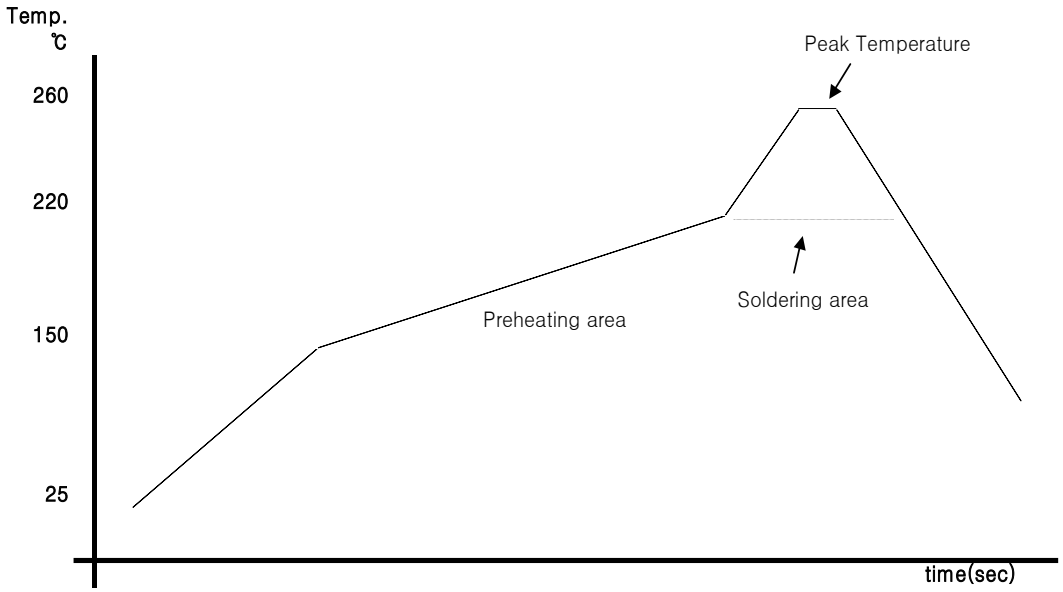
7. REFLOW SOLDERING

7.1 Reflow soldering conditions

1) Preheat ---------- 150℃ ~ 200℃, 120 ±20 (sec)

2) Peak temperature --- 260℃ max. 10 (sec)

3) Soldering area temperature ------ 217℃, 90 ~ 120 (sec)



< Temperature profile >

8. Manual soldering

8.1 Soldering temperature --------- 350℃±5℃

8.2 Soldering time ---------- 5(sec)