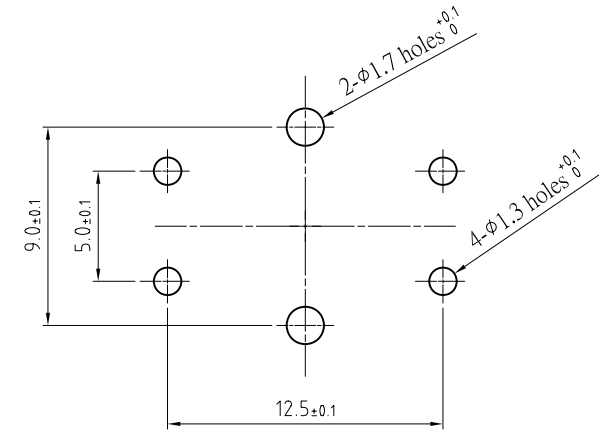


RevNo	Revision note	Date	Signature




P.C.B MOUNTING HOLE DIMENSION

NOTE

1. RATING : 12V DC, 50mA
2. TRAVEL : 0.30 ± 0.2 mm
3. CONTACT RESISTANCE : 100mΩ
4. GENERAL TOLERANCE : ± 0.3
5. MANUFACTURING SPECIFICATION WOULD BE ACCORDANCE WITH WT0182

S1212WFP		260±70gf	RED	10,000,000	WITH BOSS
MODEL	CODE NO.	O/FORCE	STEM COLOR	LIFE CYCLES	

Designed by		YQCKG-S1212WFP						
Checked by								
Approved by	Unit	mm	Scale	4/1	Date	2018.10.23		
Item	TACTILE SWITCH		Tool	Au	Sheet	1/1	Rev.	0
Model			Drawing name		ASSEMBLY			

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1. GENERAL

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

1.2 Operating temperature range : -40 ~ 90℃ (Normal humidity and air pressure)

1.3 Storage temperature range : -40 ~ 90℃ (Normal humidity and air pressure)

1.4 Test conditions : The standard test conditions shall be 5 ~ 35℃ in temperature,
25 ~ 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 50m

3. ELECTRICAL PERFORMANCE

	PROPERTY	TEST CONDITIONS	PERFORMANCE
3.1	Contact resistance	Measured at DC 5V 10mA or by ohmmeter allowing a small current at 1kHz with a load of twice of the actuating force.	* less than 100mΩ.
3.2	Insulation resistance	DC 100V is applied between terminals and between terminals and cover for 1minute ±5seconds.	* greater than 100MΩ.
3.3	Dielectric strength	AC 250V (50 ~ 60Hz)is applied between terminals and between terminals and cover for 1 minute.	* No insulation defect shall be observed.
3.4	Bounce	Measured by lightly striking the center of the stem at a rate of 3 operations/sec..	* less than 10 msec.

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4. MECHANICAL PERFORMANCE

	PROPERTY	TEST CONDITIONS	PERFORMANCE
4.1	Actuating force	A gradually increasing load is applied to the center of the 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 60gf.
4.3	Travel		* $0.30^{+0.2}_{-0.1}$ mm
4.4	Stop strength	A static force of 5Kgf shall be applied to the direction of operation for 60 seconds.	* Shall be free from mechanical and electrical abnormalities.
4.5	Stem withdrawal force	A static load of 3Kgf is applied to the direction of pulling for 3 seconds.	* Shall be free from mechanical and electrical degradation.

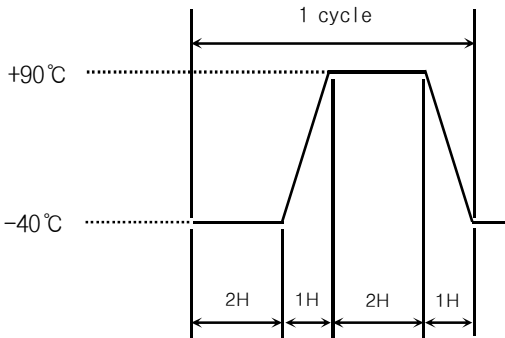
5. DURABILITY

	PROPERTY	TEST CONDITIONS	PERFORMANCE
5.1	Operating life	10,000,000cycles operation with a load of 150% of Actuating force a rate of 2 cycles/sec. With a resistive load supplying DC 5V 5mA.	* Contact resistance : 200mΩ max. * Insulation resistance : 10MΩ min. * Actuating force : within $\pm 30\%$ of the initial value.

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6. WEATHER PROOF

	PROPERTY	TEST CONDITIONS	PERFORMANCE
6.1	Cold heat proof	After testing at $-40\pm 2^{\circ}\text{C}$ for 96hours, the sample is allowed to stand under normal temperature and humidity conditions for 1hour and measurement is performed within 1 hour after that. Water drops should be wiped off.	* The requirement in item 3 and 4 shall be met.
6.2	Dry heat proof	After testing at $90\pm 2^{\circ}\text{C}$ for 96hours, the sample is allowed to stand under normal temperature for 1hour and measurement is performed within 1 hour after that.	
6.3	Damp heat proof	After test at $60\pm 2^{\circ}\text{C}$ 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 1 hour after that. Water drops should be wiped off.	* Contact resistance : 200m Ω max. * Insulation resistance : 10M Ω minimum. * The requirement in item 3.3 and 4 shall be met.
6.4	Thermal cycling	 <p>; After the test conducted under 5 cycles the sample is allowed to stand under normal temperature and humidity conditions for 1hour, and the measurement is performed within 1hour.</p>	* The requirement in item 3 and 4 shall be met.

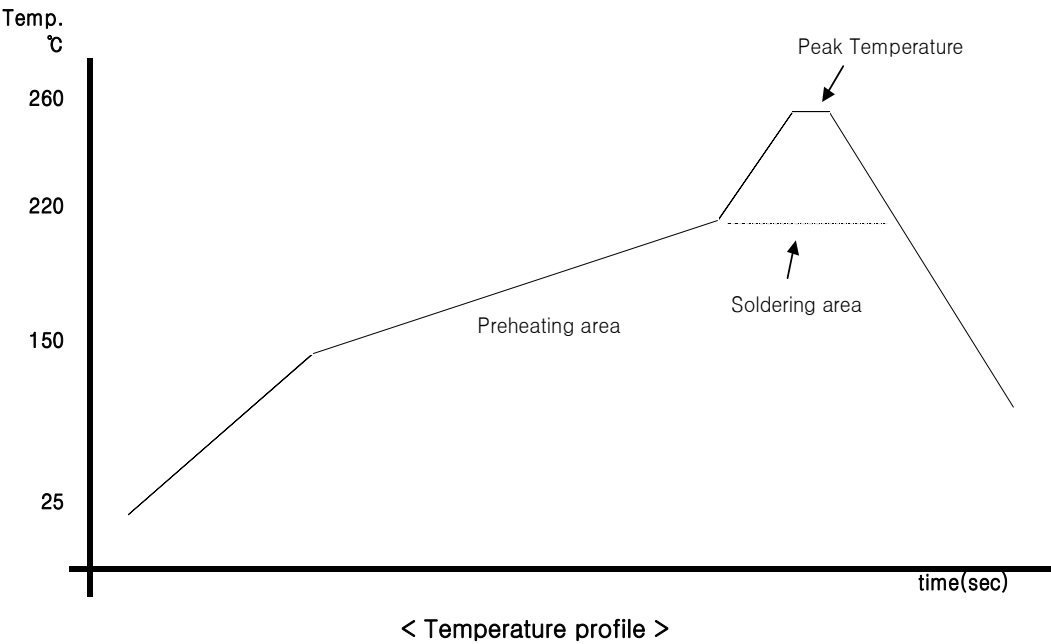
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7. SOLDERING CONDITIONS

7.1 Reflow soldering conditions

- 1) Preheat ----- 150℃ ~ 200℃, 120 ±20 (sec)
- 2) Peak temperature --- 260℃ max. 10 (s
- 3) Soldering area temperature ----- 217℃, 90 ~ 120 (sec)



7.2 Manual soldering conditions

- 1) Soldering temperature --- 350℃ max.
- 2) Solderng time ----- 3 (sec) max.

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