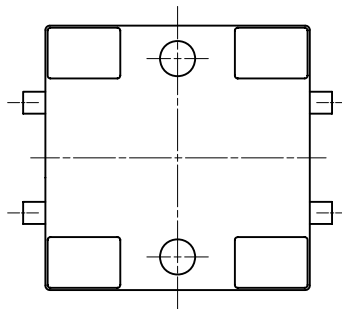
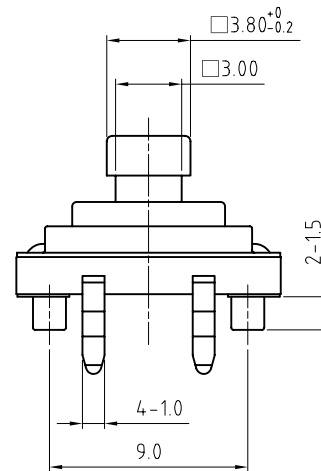
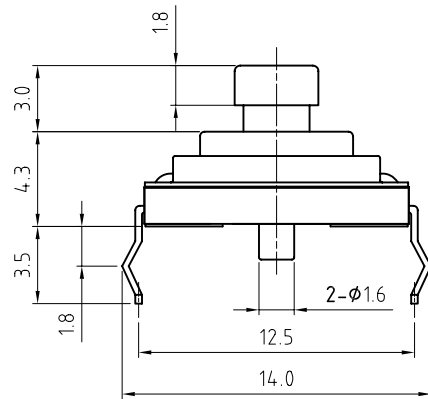
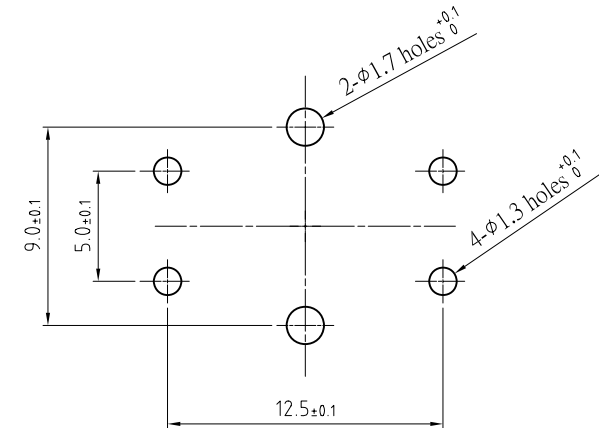


CIRCUIT DIAGRAM



RevNo	Revision note	Date	Signature
△	모델 파생	2018.10.23	



P.C.B MOUNTING HOLE DIMENSION

# NOTE

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

JT-S1212WFP	130010000545	260±70gf	RED	10,000,000	WITH BOSS
MODEL	CODE NO.	O/FORCE	STEM COLOR	LIFE CYCLES	REMARKS

Designed by	B.SAGONG		<div>SWITCH KOREA</div>			
Checked by						
Approved by	J.Y.JOUNG	Unit	mm	Scale	4/1	Date 2018.10.23
Item	TACTILE SWITCH	Tool	Au	Sheet	1/1	Rev. 0
Model	JT-S1212F SERIES	Drawing name ASSEMBLY				

	SPECIFICATION	PAGE
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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.

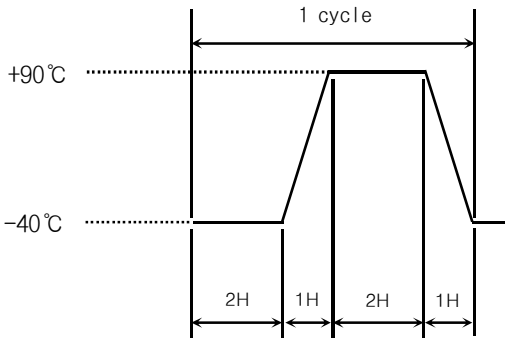
#### 5. DURABILITY

	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 1hour 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 1hour 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 1hour after that. Water drops should be wiped off.	* Contact resistance : 200m $\Omega$ max. * Insulation resistance : 10M $\Omega$ 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.

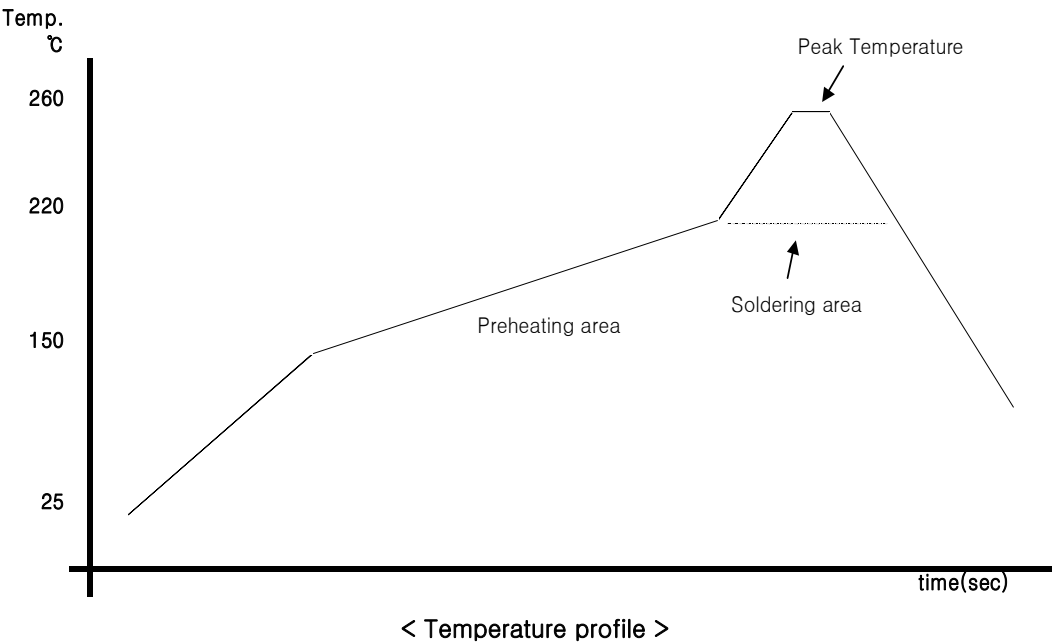
						APPD	CHKD	DSGN	TITLE
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7. SOLDERING CONDITIONS

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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