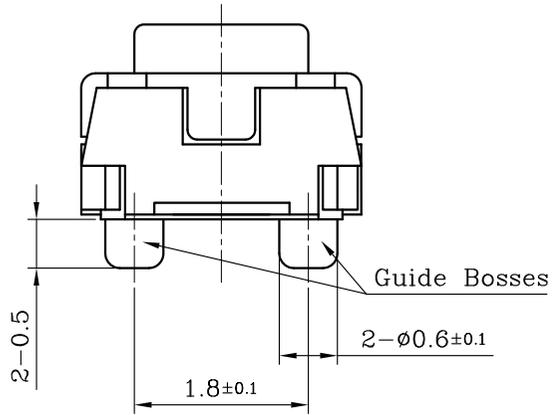
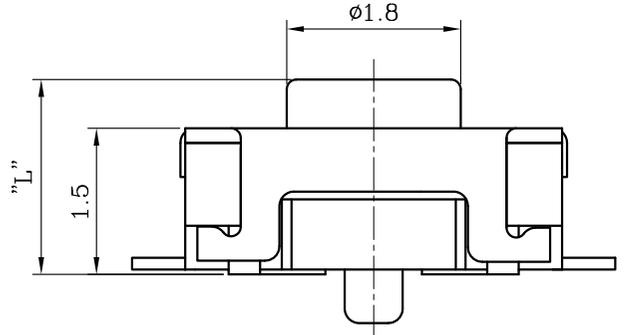
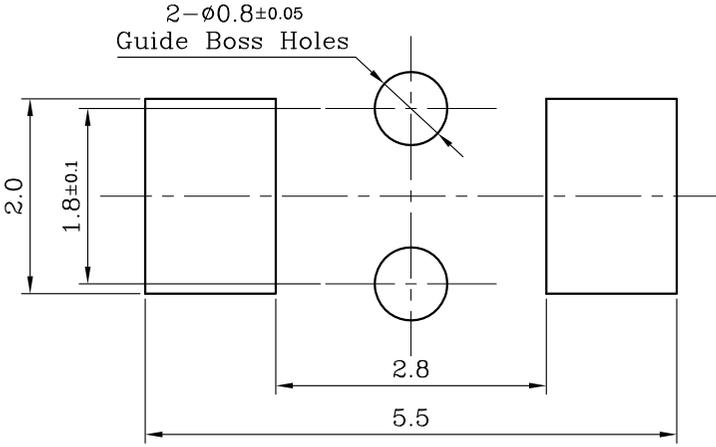
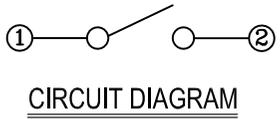
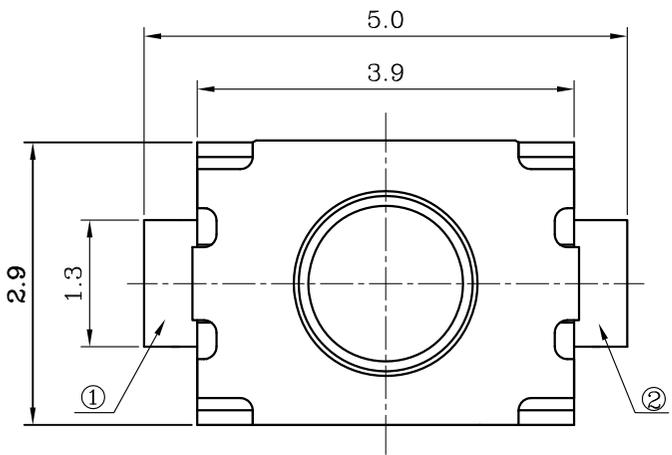


RevNo	Revision note	Date	Signature



NOTE

1. RATING : DC 12V 50mA
2. CONTACT RESISTANCE : 100mΩ MAX
3. TRAVEL : 0.13±0.05mm
4. GENERAL TOLERANCE : ±0.2
5. MANUFACTURING SPECIFICATION WOULD BE ACCORDANCE WITH JT0135

MODEL	NAMAE	CODE NO.	"L" mm	STEM COLOR	CASE COLOR	O/FORCE	GUIDE BOSSSES
JT1185SWA	130010000433	2.0	RED	BLACK	260±50gf	WITHOUT	
JT1185SB	130010000424	2.5	BLACK	BLACK	160±50gf	WITHOUT	
JT1185SAP	130010000140	2.0	BLACK	BLACK	160±50gf	WITH	
JT1185SA	130010000070	2.0	BLACK	BLACK	160±50gf	WITHOUT	
JT1185S	130010000071	1.5	BLACK	BLACK	160±50gf	WITHOUT	

Designed by		NAMAE ELECTRONICS						
Checked by								
Approved by	Unit	mm	Scale	1/1	Date	2012.3.30		
Item	Tactile Switch		Tool	A-Cad	Sheet	1/1	Rev.	0
Model	JT1185S Series		Drawing name				ASSEMBLY	

	SPECIFICATION	Page : 1 / 4
	TACT SWITCH	

1. GENERAL

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, test shall be conducted
at 20±2℃, 65±5% RH and 860~1060mbar.

2. RATED VOLTAGE AND CURRENT.

DC 12V 50mA

3. ELECTRICAL PERFORMANCE

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

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	SPECIFICATION	Page : 2 / 4
	TACT SWITCH	

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.	*160gf, 260gf : greater than 50gf. *100gf : greater than 30gf.
4.3	Stop strength	A static force of 3Kgf shall be applied to the direction of the stem 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 the stem pulling for 3 seconds.	*Shall be free from mechanical and electrical degradation.
4.5	Solderability	Dip in the solder bath of temperature $230\pm 2^{\circ}\text{C}$ for 2± sec after dipping in the flux of room temperature for 5 sec to 10 sec. The solder shall be covered on 90% min of dipping area on the plating surface.	
4.6	Travel		*As per individual manufactured drawing.
4.7	Arrangement of action		*Tactile feed-back.

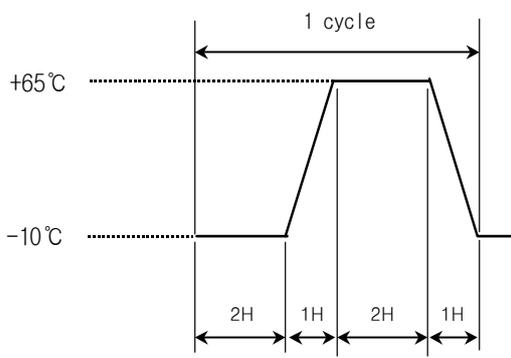
5. DURABILITY

	PROPERTY	TEST CONDITIONS	PERFORMANCE
5.1	Operating life	100,000 cycles operation with a load of 150% of actuating force a rate of 2 cycles/sec. With a resistive load supplying DC 12V 50mA.	*Contact resistance : 200mΩ max. *Bounce : 20m sec max. *Actuating force : within ±30% of the initial value.

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	TACT SWITCH	

6. WEATHER PROOF

	PROPERTY	TEST CONDITIONS	PERFORMANCE
6.1	Cold heat proof	After testing at -30°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 85°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.	*Insulation resistance : 10M Ω min. *Dielectric strength : same as item 3.4. *Contact resistance : same as item 3.2.
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 1 hour, and the measurement is performed within 1 hour.</p>	*The requirement in item 3 and 4 shall be met.

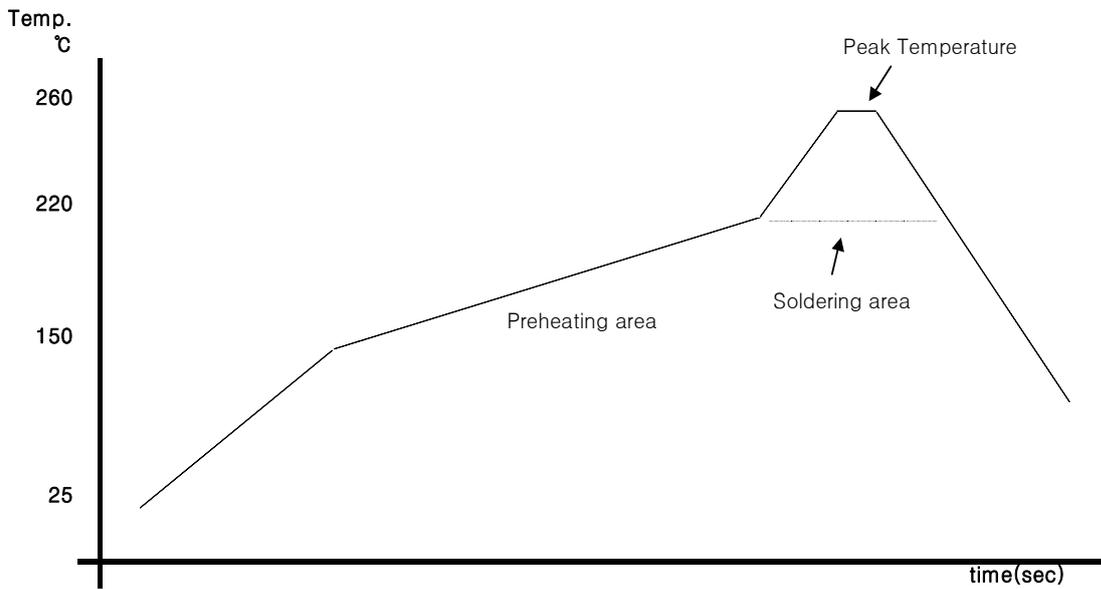
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	TACT SWITCH	

7. REFLOW SOLDERING

7.1 Reflow soldering conditions

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



< Temperature profile >

7.2 Manual soldering conditions

- 1) Soldering temperature : less than 350°C
- 2) Soldering time : within 3 seconds.

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