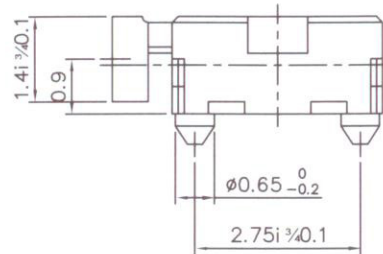
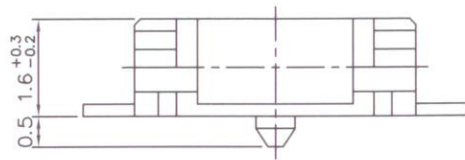
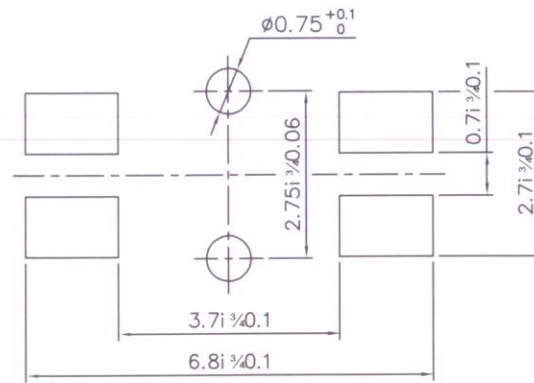


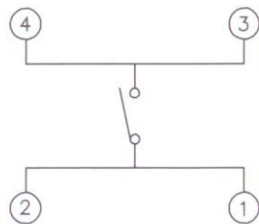
P.C.B DIMENSION



NOTE

1. RATING : 50mA, DC12V Max
2. CIRCUIT : 1C - 1P.
3. OPERATING FORCE : 220±50gf
4. CONTACT RESISTANCE : 100mΩ Max
5. TRAVEL : 0.25 (+0.2/-0.1) m/m
6. REEL : 16 m/m
7. PACKAGE : 3,000PCS

CIRCUIT DIAGRAM



PART NO	PART NAME	Q'TY	MATERIAL	STANDARD	DISPOSITION	REMARKS
△			TRIGON-OMETRY	UNIT	SCALE	TACT SWITCH
△				5	1	
△			APPD	CHKD	DSGD	MODEL INT-1400FE
△						
△						
NO	CORRECTION					

# PART LIST

DESIGN	CHECK	APPR

모델명(MODEL NO.) : INT-1400F/FE/U/UE

NO.	부품명 PART NAME	원재료명 MATERIAL NAME	원재료업체 MATERIAL MANUFACTURER	원산지 ORIGIN	도금 PLATING	색상 COLOR	비고 REMARKS
1	TERMINAL	C2680R-EH	POONGSAN METAL CO., LTD.	KOREA			
2	CASE	LCP(VECTRA E130i )	POLYPLASTICS CO., LTD.	JAPAN	Ag	Black	
3	CONTACT	SUS 301-EH-AG	FURUKAWA CO., LTD.	JAPAN			3Ø, 160gf
4	DUST TAPE	polyimid tape	chang -jo co.,ltd	korea			T : 35 $\mu$ m, 3.5×4.5mm
5	PUSH	PA46 (TW241F6)	DSM ENGINEERING PLASTIC	japan		Black	
6	COVER	SUS 301 3/4H	TAIHAN ELECTRIC WIRE CO., LTD.	KOREA			

## 1. GENERAL MATTERS

1. 1 Application : This specification is applied to low current tactile switch for electronic equipment.
1. 2 Operating Temperature Range : -20°C ~ 70°C, 45 ~ 85% RH
1. 3 Test Condition : The standard test conditions shall be 5°C ~ 35°C in temperature, 45 ~ 85% RH and 860 ~ 1060mbar in atmospheric pressure.  
Should any doubt arise in judgment, tests shall be conducted at 20 ±2°C, 65 ±5% RH and 860 ~ 1060mbar.

## 2. RATED VOLTAGE AND CURRENT

12V DC, 50mA

## 3. ELECTRICAL PERFORMANCE

	PROPERTY	TEST CONDITION	PERFORMANCE
3. 1	Contact Resistance	Measured at 50mA, 12V DC	100mΩ Max
3. 2	Insulation Resistance	DC 500C is applied between terminals and earth for 1 minute ±5 seconds.	100mΩ Min
3. 3	Withstand Voltage	250V AC( 50~ 60HZ ) is applied between terminals and earth for 1 minute.	No insulation defect shall be observed.
3. 4	Bounce	Measured by lightly striking the center of the button stem at a rate of 3 operation/sec.	10msec. Max

## 4. MECHANICAL PERFORMANCE

	PROPERTY	TEST CONDITION	PERFORMANCE
4. 1	Operating Force	A gradually increasing load is applied to the center of the button stem.	220 ± 50gf
4. 2	Terminal Strength	A static force of 500gf shall be applied to an arbitrary.	Shall be free from terminal looseness, damage and breakdown of insulator.
4. 3	Stop Strength	A static force of 3Kgf shall be applied to the direction of operation for 3 seconds.	Shall be free from mechanical and electrical abnormalities.
4. 4	Solder Heat Resistance	Soldering temperature : 245 ~ 255°C Soldering time : 10sec.	Shall be free from mechanical and electrical degradation.
4. 5	Travel		0.3 ± 0.1mm
4. 6	Arrangement of action		Tactile feed-back

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S/W TYPE	SMD TACT S/W				1 / 3
MODEL NO.	INT-1400/ 1400E/ 1400V/ 1400VE				
DOCUMENT NO.	STS-031	/ /	/ /	/ /	

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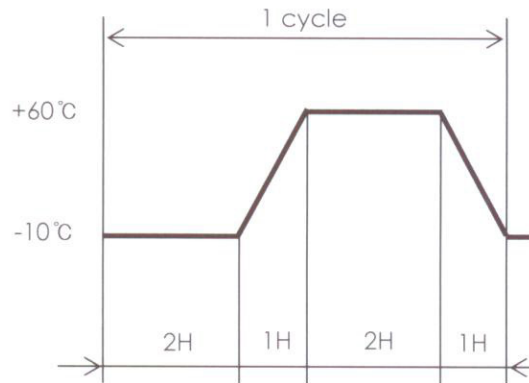
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**6. ENVIRONMENTAL**

PROPERTY	TEST CONDITION	PERFORMANCE
6.3 Moisture Resistance	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made : *temperature/time : 80 ±2°C/96hr	Contact Resistance : 100mΩ Max Insulation Resistance : 10MΩ Min Item 3. 3, 3. 4 Item 4. 1, 4. 5
6.4 Temperature Cycling	Following 5 cycles of the temperature cycling test set forth below the sample shall be left in normal temperature and humidity conditions for one hour during this test, waterdrops shall be removed.	Item 3. 1 Item 4. 1 Item 4. 5



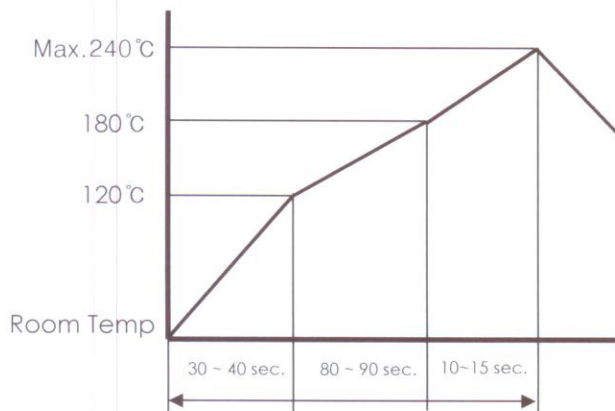
**7. REFLOW SOLDERING**

7.1 Refer to the following time temperature chart.

It is recommended to determine soldering conditions through verification test and on prior agreement of INNOCENT ELEC., since surface temperature varies depending upon material, size and thickness PCB.

7.2 Other precautions

- 1) Switch shall not be washed after soldering with solvent or the like.
- 2) Soldering shall be controlled so as not to allow flux penetrates switch at its upper face.
- 3) Switch terminals and PCB upper face shall be free from flux prior to soldering.



Above-mentions time-temperature chart is based on the temperature in the part mounting surface of PCB.

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