1. Style：

This specification describes “Snap-Acting Pushbutton Switches”, mainly used as signal switch of electric devices, with the general requirements of mechanical and electrical characteristic.
Operating Temperature Range：-30℃~+85℃.

2. Current Range：

2.1 Silver Plating Standard：

Plating		Rating
C=Gold over silver	Fixed Terminal：Copper alloy with silver plated over gold plate. Movable contact：Copper alloy with silver plated over gold plate.	100mA,24 VDC

2.2 Gold Plating Standard：

Plating		Rating
R=Gold	Fixed Terminal：Copper alloy with gold plate over nickel plate. Movable contact：Copper alloy with silver plated over gold plate.	500mA @48VAC Max. 200mA @50VDC Max. 200mA @250VAC Max.

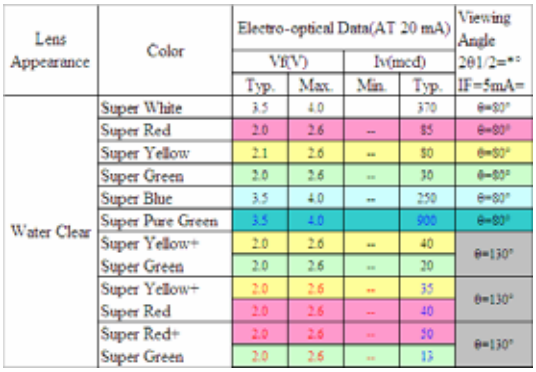
3. Type of Actuation：Snap-Acting Pushbutton Switches.

4. Test Sequence：

	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
ELECTRIC PERFORMANCE	1	Visual Examination	By Visual Examination check without and out pressure & testing.	There shall be no defects that affect the serviceability of the product.
	2	Contact Resistance	@2-4VDC 100mA. For both silver and gold plated contacts.	100mΩ Max.

	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
ELECTRIC PERFORMANCE	3	Insulation Resistance	Measurements shall be made following application of 1000 V/DC 100mA potential across terminals and cover.	1000MΩ min/1000V.
	4	Dielectric Withstanding Voltage	1500 VAC(50Hz or 60Hz) shall be applied across terminals and cover for 1 minute.	There shall be no breakdown or flashover.
MECHANICAL PERFPRMANCE	5	Solder Heat Resistance	Through Hole Type ■Wave Soldering： ①Soldering Temperature：260±5℃. ②Duration of Solder Immersion：5 ±1 seconds. ③PCB is 1.6mm in thickness ■Manual Soldering： ①Soldering Temperature：350±5℃. ②Duration of Solder Heated：5±1 seconds.	①Shall be free from pronounced backlash and falling-off or breakage terminals. ②As shown in item 2~4.
	6	Actuation Force	MODEL-1305N MECHANICAL TEST 500gram、1000gram、2000gram. OFF TO ON Total Travel	①At for test the force. Force：2~5N. ②Total Travel： 2.5 ㎜±0.25 ㎜
OPERATING LIFE	7	Operating Life	Measurements shall be made following the test forth below： ①100mA,24 VDC resistive load—gold over silver plated. Electronics Life Test：10,000 cycles. ②Electronics Life Test：500,000 cycles. ③Rate of Operation：6-8 operation cycles per minute. ④Mechanical Life Test：1,000,000 cycles.	①Electronics Life Test： As shown in item 3~4. ②Mechanical Life Test： As shown in item 2~4.

	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
HUMIDITY RESISTANCE	8	Resistance Low Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 hour before the measurements are made： ①Temperature：-40±3℃. ②Time：96 hours.	As shown in item 2~4.
	9	Resistance High Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made： ①Temperature：85±3℃. ②Time：96 hours.	As shown in item 2~4.
	10	Resistance Humidity	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made： ①Temperature：40±2℃. ②Relative Humidity：90~95%. ③Time：96 hours.	As shown in item 2~4.
	11	The Salt Testing	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made： ①Temperature：35±2℃. ②The ratio of salt-water：5%. ③The spray amount of salt- water：1~2 ml/h. ④Time：48 hours.	The testing standard based on bubble, crack, and magnifying glass with gauge.

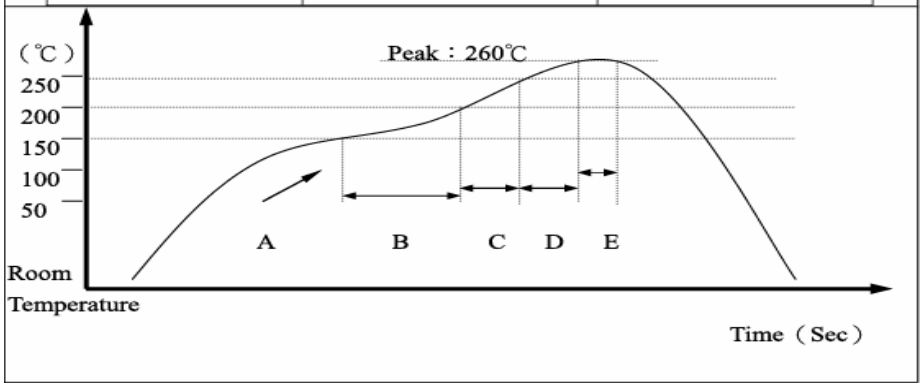
	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
HUMIDITY RESISTANCE	12	HSF	Refer ROHS Standard： The electronic electrical machinery product limits with six big chemical materials.	Cd：100ppm Pb：1000ppm Hg：1000ppm Cr6+：1000ppm PBB、PBDE：1000ppm
	13	Test of IP 67	Upper side： Protected against the effects of temporary immersion in water. (1m below the surface of the water for a duration of 30 min)	IP67 According to EN 60529：1991＋A1：2000 IEC 60529：2001
	14	WITH LED ELECTRO OPTICAL		4.0 Vf(V) Max.

Lens Appearance	Color	Electro-optical Data(AT 20 mA) Vf(V) Typ.	Vf(V) Max.	Iv(mcd) Min.	Iv(mcd) Typ.	Viewing Angle 2θ1/2=° IF=5mA=
Water Clear	Super White	3.5	4.0		370	θ=80°
	Super Red	2.0	2.6	--	85	θ=80°
	Super Yellow	2.1	2.6	--	80	θ=80°
	Super Green	2.0	2.6	--	30	θ=80°
	Super Blue	3.5	4.0	--	250	θ=80°
	Super Pure Green	3.5	4.0		900	θ=80°
	Super Yellow+	2.0	2.6	--	40	θ=130°
	Super Green	2.0	2.6	--	20	
	Super Yellow+	2.0	2.6	--	35	θ=130°
	Super Red	2.0	2.6	--	40	
	Super Red+	2.0	2.6	--	50	θ=130°
	Super Green	2.0	2.6	--	13	

5. WAVE SOLDERING CONDITIONS：

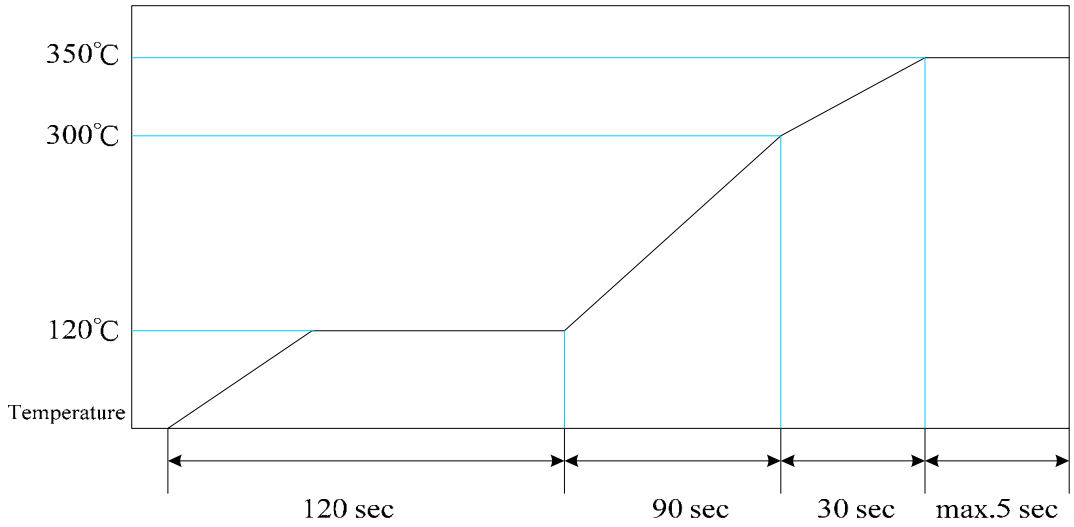
Temperature Profile

Zone	Room temperature	Time (Sec)
Pre-heat （A）	150℃	Min 120s
Soak （B）	180℃~200℃	Min 150s
Peak （C）	200℃~235℃	Min 30s
Peak （D）	235℃~260℃	Min 40s
Peak （E）	260℃	Max 10s



■ Manual Soldering

Soldering Temperature	Max.350℃
Continuous Soldering Time	Max.5 seconds



■ Precautions in Handling：

Care should be exercised so that flux from the upper part of the printed circuit board does not adhere to the switch.