

ZPAS6 SPECIFICATIONS

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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 °C ~+85°C.

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.	500mA @48VAC Max. 200mA @50VDC Max. 200mA @250VAC Max.

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 :

ELECTRIC PERFORMANCE	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
	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.	50mΩ Max.

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	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 PERFORMANCE	5	Solder Heat Resistance	Through Hole Type ■ Wave Soldering : ①Soldering Temperature : 260±5°C. ②Duration of Solder Immersion : 5 ±1 seconds. ③PCB is 1.6mm in thickness ■ Manual Soldering : ①Soldering Temperature : 350±5°C. 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 : 2N~5N. ②Total Travel : 1.5 mm±0.25 mm
OPERATING LIFE	7	Operating Life	Measurements shall be made following the test forth below : ①200mA,50VDC resistive load— gold plated. Electronics Life Test : 500,000 cycles. ②Rate of Operation : 6-8 operation cycles per minute. ③Mechanical Life Test : 1,000,000 cycles.	①Electronics Life Test : As shown in item 3~4. ②Mechanical Life Test : As shown in item 2~4.

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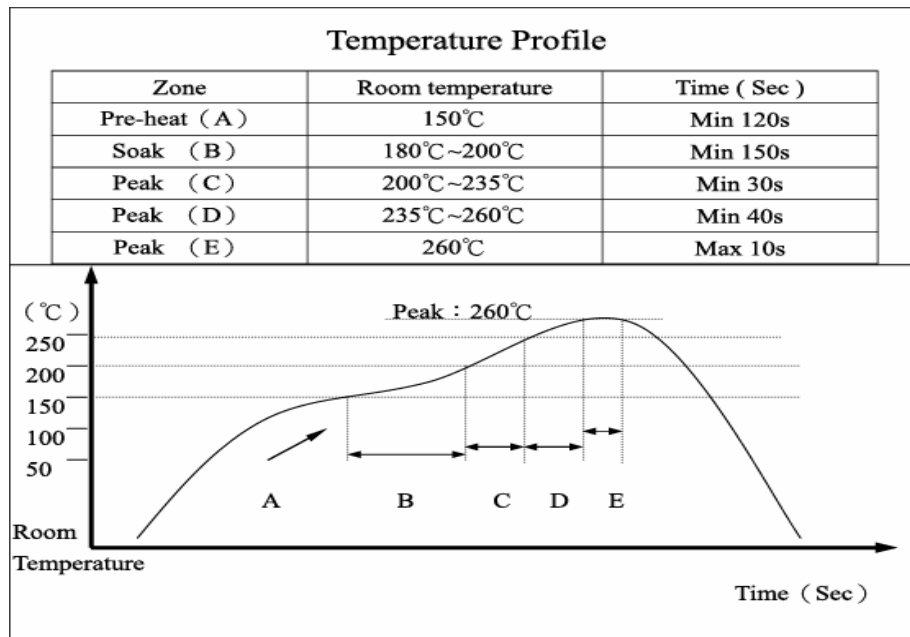
HUMIDITY RESISTANCE	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
	8	Resistance Low Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 hour before the measurements are made : ①Temperature : $-40\pm 3^{\circ}\text{C}$. ②Time : 96 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 : $85\pm 3^{\circ}\text{C}$. 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 : $40\pm 2^{\circ}\text{C}$. ②Relative Humidity : 90~95%. ③Time : 96 hours.	①Contact Resistance : 10mΩ Max. ②Insulation Resistance : 1000MΩ min.
	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 : $35\pm 2^{\circ}\text{C}$. 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.

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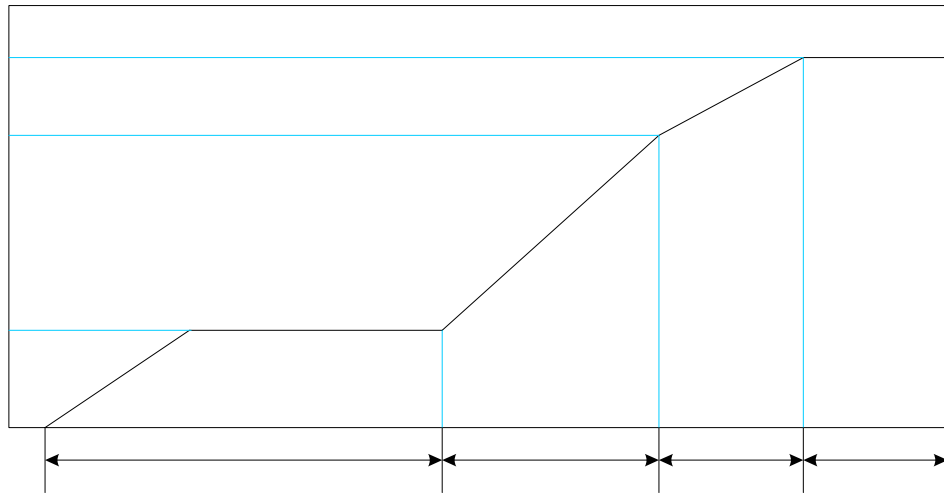
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HUMIDITY RESISTANCE	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS																																						
	12	HSF	Refer RoHS Standard : The electronic electrical machinery product limits with six big chemical materials.		Cd : 100ppm Pb : 1000ppm Hg : 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	<table border="1"> <thead> <tr> <th rowspan="2">Lens Appearance</th> <th rowspan="2">Color</th> <th colspan="4">Electro-optical Data (AT 20mA)</th> <th rowspan="2">Viewing Angle 2θ 1/2 (deg)</th> </tr> <tr> <th colspan="2">Vf(V)</th> <th colspan="2">Iv(mcd)</th> </tr> </thead> <tbody> <tr> <td rowspan="5">Water Clear</td> <td>Super Red</td> <td>2.1</td> <td>2.6</td> <td>42.0</td> <td>100.0</td> <td rowspan="5">35°</td> </tr> <tr> <td>Super Yellow Green</td> <td>2.0</td> <td>2.6</td> <td>42.0</td> <td>80.0</td> </tr> <tr> <td>Super Yellow</td> <td>2.1</td> <td>2.6</td> <td>94.0</td> <td>200.0</td> </tr> <tr> <td>Super Blue</td> <td>2.8</td> <td>3.2</td> <td>28.0</td> <td>70.0</td> </tr> <tr> <td>Super White</td> <td>3.5</td> <td>4.0</td> <td>140.0</td> <td>300.0</td> </tr> </tbody> </table>	Lens Appearance	Color	Electro-optical Data (AT 20mA)				Viewing Angle 2θ 1/2 (deg)	Vf(V)		Iv(mcd)		Water Clear	Super Red	2.1	2.6	42.0	100.0	35°	Super Yellow Green	2.0	2.6	42.0	80.0	Super Yellow	2.1	2.6	94.0	200.0	Super Blue	2.8	3.2	28.0	70.0	Super White	3.5	4.0	140.0	300.0	
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5. WAVE SOLDERING CONDITIONS :



Soldering Temperature	Max.350°C
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.

350°C

300°C