

STANDARD SPECIFICATION

1.Ratings:

- 1.1 **Mechanical Life :** 3000 cycles minimum Electrical Life:2000cycles 25mA 24VDC
- 1.2 **Contact Rating:** 100mA at 50 Vdc non-switching; 25 mA at 24 Vdc, 10 mA at 50 Vdc Switching.
- **1.3 Contact Resistance:** 50 milliohms maximum (initial) 100 milliohms maximum (after test)
- 1.4 **Insulation Resistance:** 1,000MOhm Minimum at 500 Vdc between adjacent closed contacts and Also across open switch contacts.
- 1.5 **Dielectric Strength:** 500 Vac, RMS, minimum voltage measured between adjacent closed contacts and also across open switch contacts.
- 1.6 Switch Capacitance: 5pF at 1 MHz
- 1.7 Operating Temperature:-40deg C to +85deg C.
- 1.8 Storage Temperature: -40deg C to +85deg C.
- 1.9 Test condition : The standard test shall be 5 ~ 35deg C temperature and 45 ~ 85%

relative humidity 860 ~ 1060 Hpa atmospheric pressure unless otherwise specified. In case of any question happen, retest condition shall specify by temperature 20 +/-2deg C, 65 +/-5% RH and 860 ~ 1060 Hpa.

2.Materials and Finishes:

- 2.1 Finished code :
 - G: Full Gold Plated (Contact area & Terminal with gold-plated)
 - S: Contact Gold plated with Terminal Tin-plated
- 2.2 Plated code :
 - E: 3 u" Gold -Plated
 - F: 10u" Gold -Plated
 - A: 12u" Gold -Plated
 - B: 20u" Gold -Plated
 - G: 30u" Gold -Plated
- 2.3 Base : UL 94 V0 grade PPS Thermoplastic / Black color
- 2.4 **Cover** : UL 94 V0 grade PPS Thermoplastic / Black color
- 2.5 Actuator : UL 94 V0 grade NYLON Thermoplastic / Whit color

3. Processing:

3.1 Switch Operation and Taping

- 3.1.1 Use tweezers or ball point pen for operation.gh
- 3.1.2 Flux cleaning should be done without removing the tape
- 3.1.3 If the tape is removed, it adhered less than before when it is placed back on, possibly causing flux inflow.
- 3.1.4 Sealed switches withstand aqueous, detergent and isopropyl alcohol washing



Dong Guan Kingtek Industrial Co., Ltd.

DSPV series DIP Switch

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4. ELECTRICAL CHARACTERISTIC :

ITEM	TEST DESCRIPTION	TEST CONDITION	SSPECIFICATION
4.1	Contact Resistance	Tobe measure with AC 1KHZ+/-200Hz (Max 20mV, Max 50mA) or 10mA, 5V DC.	Max 50 mOhm
4.2	Insulation Resistance	To be measured with an insulation measuring device of 500V DC between all the terminals and between the terminals and the frame for 1 minute +/-5 seconds.	Minx 1,000 mOhm
4.3	Dielectric Breakdown Voltage	AC 500V (50-60Hz, 2mA current) being applied between all the adjacent terminals and between the terminal and frame for 1 minute.	No breakdown insulation
4.4	Switch Capacitance	To be measured with frequency 1MHz +/-10KHz Applied between adjacent terminal and circuit.	Max 5PF

5. MECHANICAL CHARACTERISTIC :

ITEM	TEST DESCRIPTION	TEST CONDITIONS	SPECIFICATION
5.1	Operation Force	Applied in the direction of operation.	800gf Max
5.2	Terminal Strength MIL-STD-202F Method : 211A Condition : C	Measurement in made with a static load applied to the foot of the control unit in the operating direction. A static force of 500gf being applied in one direction on the tip of the terminal for 5~10seconds. One time each terminal.	No bending or deflection experienced. The terminal may be bent, but shall not break or damage the insulation material.
5.3	Operation Strength	A load of 1Kgf is applied in the operating direction and pulling direction of the control unit for 15 seconds.	Electrical characteristic of the above shall be assured.



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6. RELI			
6.1	Cold Resistance JIS-C5021	Switch for testing being kept the conditions at -40 +/-2deg C in temperature for 96 hours, and in a normal ambient condition for one hour, then to be measured within one hour. (Drops of water being taken away)	Contact resistance Max 100mOhm Insulation resistance Min 1,000 MOhm Dielectric breakdown voltage: AC 500V 1 minute no breakdown insulation Operating force 1,000gf Max.
6.2	Dry Heat Resistance JIS-C5022	Switch for testing being kept in the conditions at 55+/-2deg C in temperature for 96 hours, and in a normal ambient condition for one hour, then to be measured within one hour	There shall be no defects in appearance or in the mechanical Functions
6.3	Humidity Resistance MIL-STD-202F Method : 103B Condition : C	Switch for testing being kept in the conditions at 40+/-2deg C in temperature and 90~95% RH for 96 hours, and in a normal ambient condition for one hour, then measured within one hour.	Contact resistance Max 100mOhm Insulation resistance Min 10MOhm Dielectric breakdown voltage: AC 500V 1 minute no breakdown insulation Operating force 800gf Max
6.4	Vibration Test MIL-STD-202F Method : 201A Condition : A	The range of vibration: 10 ~ 55Hz Total width of vibration: 1.5mm The proportion of vibration: 10~55~10(Hz) approx. 1 minute The variation of the number of vibration: Logarithmic or approx. straight line The directions: 3 vertical directions including operation direction Amplitude : 0.03inch~0.06inch Duration: 2 hours each (Total 6 hours)	There should be no defects in appearance or in the mechanical functions.



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6.5	Shock Test MIL-STD-202F Method : 213B Condition : A		Contact resistance Max 100mOhm Insulation resistance Min 1,000 MOhm Dielectric breakdown voltage: AC 500V 1 minute no breakdown insulation Operating force 1,000gf Max. There shall be no defects in appearance or in the mechanical functions.
6.6	Thermal Shock	After 5 cycle testing under the following conditions, the sample is allowed to stand under normal temperature and humidity conditions for 1 hour, and measurement is made within 1 hour after that. Water drops should be eliminated. Temperature cycle+ 85deg C +/-2deg C+ 25deg C +/-2deg C+ 15 30+ 1 cycle 90min+	Contact resistance Max 100 mOhm Insulation resistance Min 1,000 MOhm Dielectric breakdown voltage: AC 500 V 1 minute no breakdown insulation Operating force 1,000gf Max. There shall be no defects in appearance or in the mechanical functions

Web Site: http://www.dgkingtek.cn E-mail: yeauto@dgkingtek.cn



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ITEM	TEST DESCRIPTIONTE	ST CONDITIONS	SPECIFICATION		
6.7	Resistance to Solderi		Contact resistance		
	Heat	P.C.board terminal at 265±5 ℃,10±1	Max 50mOhm Insulation resistance		
	JIS-C5034	second should be operated i			
		off	Dielectric breakdown		
		positions when soldering	voltage AC500V		
		wave soldering: soldering	1 minute no breakdown insulation		
		temperature: 265±5℃	Operating force		
		Immersing time:3±0.5 second Iron tip:	1,000gf Max		
		30w Iron/ceramic tip			
		temp: 350°C/3 sec per pin			
	eflow soldering:				
	Device : In-line or Batch				
A	opply reflow soldering o	nly once			
		265			
	200				
	170				
	emperative and the second seco				
	110/SEC 10/SEC				
	Time(SEC)				
	hen soldering two or m				
	the common land, use solder resist to				
	older them independen	iliy.			
6.8	Salt-Spray Test	The sample is allowed to stand	Shall be free from		
0.0	σαιι-οριαγισεί	in the test chamber controlled to	functionally harmful		
	MIL-STD-202F 35+/-2deg C in temperature and rust.				
	Method : 101D	5+/-1% (weight ratio) salt-water There shall be no de			
	Condition : B	concentration for 48+/-1hour	in appearance or in the mechanical functions.		
		and is subjected to test. Then, salt deposits attached to the			
		sample are washed away with			
	water.				

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7. DURABILITY

ITEM	TEST DESCRIPTION	TEST CONDITIONS	SPECIFICATION
7.1	Operation Life With No Load	3,000 cycle operation at a rate of 15 ~20 cycle / minute	Contact resistance Max 100 mOhm Insulation resistance Min 1,000 MOhm with DC 250V Dielectric breakdown voltage: AC 250 V 1 minute no breakdown insulation Operating force : 1,000gf Max. There shall be no defects in appearance or in the mechanical functions.
7.2	Operation Life With Load	DC 2AV 25mA 2,000 cycle operation at a rate of 15 ~ 20 cycle / minute	

8.Packing Specifications

Type Tube

包装明细		包装数量		
POP数	包装数量	POP数	包装数量	
2P	77	7P	26	
3P	55	8P	23	100管/内箱
4P	43	9P	20	4内箱/外箱
5P	35	10P	18	
6P	30	12P	15	

Type Reel

Туре	LS
Reel	500

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单击下面可查看定价,库存,交付和生命周期等信息

>>KINGTEK(广督)