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## 1. Temperature range

- 1.1 Storage Temperature range -25℃ to 70℃
- 1.2 Temperature range for use -15°C to 60°C
- 2. Test circumstance condition
  - 2.1 Ambient temperature 16°C
  - 2.2 Relative humidity 63% to 74%
  - 2.3 Air pressure 102KPA
- 3. Appearance, Structure and Dimension
  - 3.1 Appearance : Functionally free from rust, crack and bad plating.
  - 3.2 Structure and Dimension : Reference per attached outline drawing.
- 4. Rating : DC 12V 50mA

## 5. Mechanical performance

11	Ite	ems					lest conditi	ons		Requirements
5.1	Pre	ess for	of switch ncreasing the shall be	As per individual manufactured Drawing						
5.2	Placing the switch such that the direction of switce Operation is vertical and then applying a static loat twice the operating force to the center of the knob, the travel distance for the knob to come to a stop shall be measured.									$0.25\!\pm\!0.1\text{mm}$
5.3	Ret	urn fo	rce	direc depre dista	tion o ssion nce, t	f switch of knob i	operation i n its cente of the knob	such that to s vertical, r the whole to return to	and upon travel	130gf : 50 ±20gf 160gf ; greater than 40gf
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5. 4		ctuato trengt		To t	he pre	ess directio	Item 5.1, 6.1 to 6.3 shall be satisfied. Without damage of actuator. Function and action is in gear.				
5. 5		ction trengt		To a	ny the	e connection	Without damage of connection. Port function and action is in gear				
5. 6	Sol de	er-Abi l	lity	of the	e tern	nter, the st minal shall rature of 23	be imme	ersed	into molten		More than 90% of the dipping part shall be covered by solder
5. 7		ering l sistan	1) There shall not be deforming in appearance 2) The requirements specified in Item 5.1, 6.1 to 6.3 shall be satisfie.								
6. El	ectri	cal pei	rforma	ınce							
6. 1	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$										100mΩ (Max)
6. 2	A voltage of 100V. DC shall Insulation be applied for 1 min after Resistance which measurement shall be								- 100MΩ or more		
	Nestseance				made				een individuinal inal and fra		
6. 3	Wi	thstan	ıd	OFOU AC/FOIL C. 1				Between terminals			No arcing or break down
0. 3	V	ol tage	<b>)</b>	2300	250V. AC/50Hz for 1min,  Between individuaterminal and frame					shall occur. Trip current < 0.5mA	
6. 4	I	i brate	st d extent tes once	Item 6.1 shall be satisfied, the façade of the switch have no abnormity, motion and function is good							
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7 W	eathera	alilit	V									
1	PROPERTY TEST CONDITION										PERFORMANCE	
									act resista r to Item 6.		100mΩ or less	
				Switch for test shall be Stored at a temperature $40\pm2^{\circ}$ C, and a relative humidity					lation resis		100MΩ (Max)	
7. 1		ria-Bl ump Hea		of 90 the s maint	-95% f witch ained	for 96 hours. Then shall be at standard			stand voltag r to Item 6.		No arcing or break down shall occur.	
				atmospheric conditions for an hour after which measurement shall be made within 96hour.				Operating force and Appearance		and	Item 5.1 shall be satisfied, there shall be no deformation or cracks in molded part or excessive rust and discoloration	
7. 2		ry hea proof	t	Swite $70\pm2$ Condition hour.		The Item 3.1, 5.1, 6.1						
7. 3	Co	ld pro	of	$-25\pm$	ch for 3℃for tions		satisfied					
8. Di	ırabili	ity										
								Press force. Refer to Item 5.1			$\pm 30\%$ of initial force	
8. 1	Τ:	fo Too	, <b>+</b>	100,000 cycles of a knob operation shall be performed				Contact resistance. Refer to Item 6.1			200mΩ (Max)	
8. 1	Ll	Life Test			nuousl ycles/	y at a rate sec	of	Insulation resistance. Refer to Item 6.2			100MΩ or more	
								Withstand voltage. Refer to Item 6.3			No arcing or Break down shall occur	
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9. Sol	dering conditions	5	
9. 1	Hand soldering	Please practice according to below condition: (1) Soldering temperature: 260°C Max (2) Continuous soldering time: 5s Max (3) Capacity of soldering iron: 20W Max	
9. 2	Automatic flow soldering	For the product of SMD, in case an automatic flow sol for soldering adhere to the following conditions:  Copper foil surface temperature  Max. 260	10s max
9.3	Automatic flow soldering	<ul> <li>(1) Preheat: Temperature on the copper foil surface sh maximum temperature of 180°C within 2min±0.3mm a into the soldering equipment.</li> <li>(2) Soldering: Temperature on the copper foil surface temperature of 260°C within 10 seconds max. after soldering heat zone</li> <li>(3) Caution: The condition mentioned above is a temper surface on which parts are mounted. There are case greatly differs from switch's surface temperature material, size, thickness, etc. Care, therefore, s allow switch's surface temperature to exceed 260°C</li> </ul>	should reach the peak the PWB entered into  ature on the PWB s where PWB temperature depending on PWB hould be used not to

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