

SH	Technical Standards	Standard	7.1
E-SPEC-21	250 Specification	Edition	C2
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1 · Style :

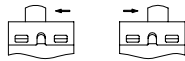
This specification describes miniature slide switches mainly used as small current and signal switch of electric device with the general required of mechanical and characteristics.

Operating and storage temperature range:-30°C~+85°C

2. Rated Current : 1A , 250 V AC or 28 VDC .

3. Type of Actuation : Actuated by button.

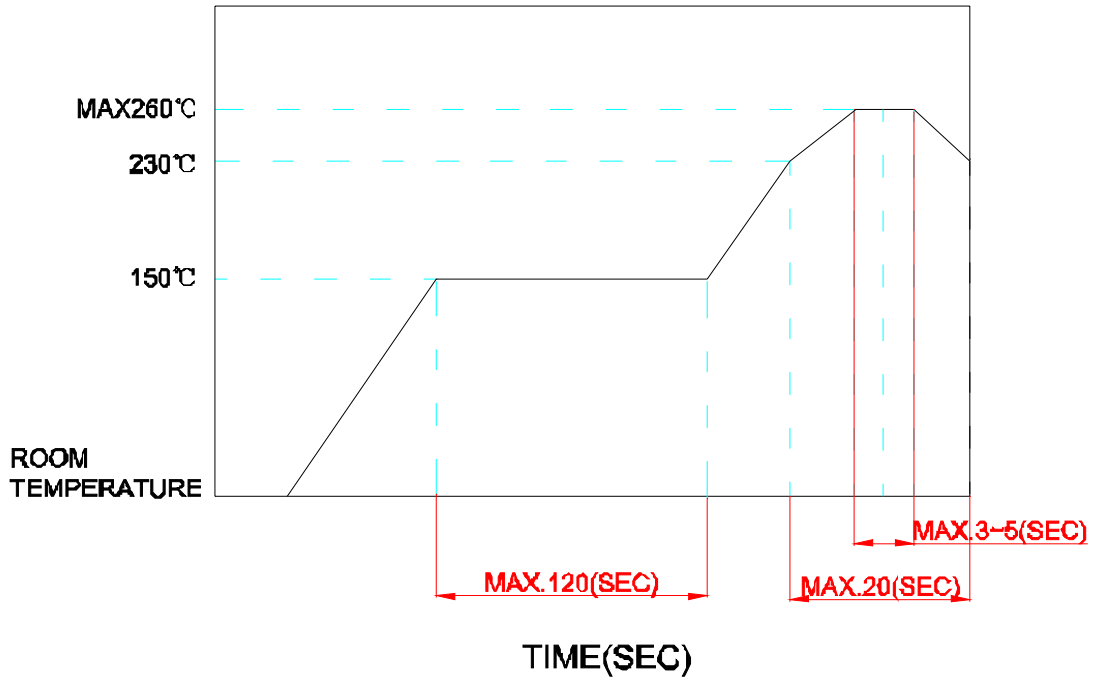
4. Programmer of test :

peculiarity	ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENTS
ELECTRIC CHARACTERISTICS	1	Visual Examination	By visual examination check without any pressure and testing	There shall be no defect that affect the function of the product
	2	Contact Resistance	①To be measured between the two terminals associated with each switch pole. ②Measurements shall be made with a 1kHz shall current contact resistance meter.	20mΩ MAX(initial)
	3	Insulation Resistance	500VDC,1min±5sec	1000MΩ MIN
	4	Dielectric withstanding voltage	1000VAC (50Hz or 60 Hz) shall be applied between all the adjacent terminals and between the terminal and the frame for 1 minute.	There shall be no breakdown or flashover
MECHANICAL CHARACTERISTICS	5	Operating Force	Applied in direction operation 	10N max
	6	Stop Strength	A static load of 30N is applied in the operating direction and pulling direction operated for a period of 30 seconds.	There shall be no sign of damage mechanically

MECHANICAL CHARATERISTICS	7	Soldering Heat Resistance	<input type="checkbox"/> through hole type (1) Soldering Temperature : 260±5°C (2) Duration of Solder Immersion : 5±1sec (3) Frequency of Soldering Process,2 times Max (PCB is 1.6mm in thickness)	As show in item2~6	
	DURABILITY	8	Operation Life	Measurements shall be made following the test set forth below: ①1A,250VAC resistive load ②Rate of Operation : 6~8cycles/minute ③Cycle of Operation : 10000cycles	As show in item 3.4
		WEATHER-PROFF	9	Resistance Low Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before measurements are made ①Temperature : -30±3°C ②Time : 48 hours
10			Resistance high Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before measurements are made ①Temperature : 85±3°C ②Time : 48 hours	As show in item 2~6
11	Resistance Humidity		Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before measurements are made ①Temperature : 40±2°C ②Relative Humidity : 90-95% ③Time : 48 hours	1.As show in item 4~6 2. Contact Resistance:100mΩ max 3.Insulation Resistance:10MΩ min	

5. Soldering Condition

■ Condition for soldering



■ Manual soldering :

Soldering Temperature	MAX.350°C
Continuous Soldering Time	MAX.3 seconds

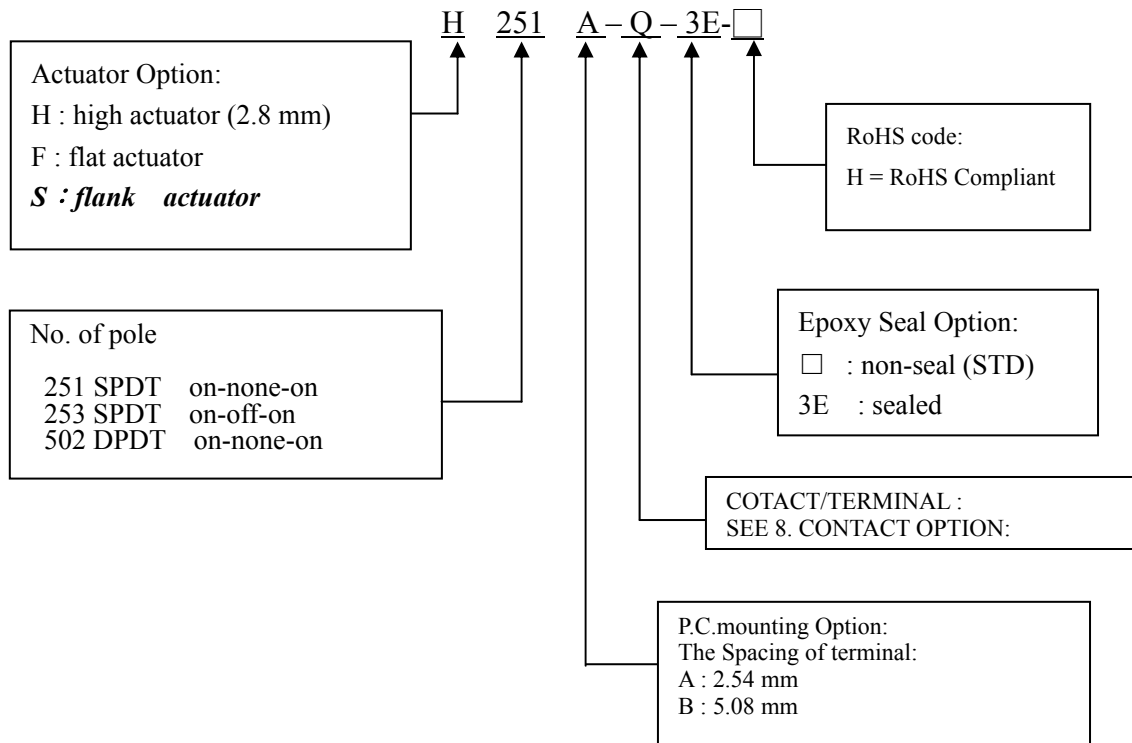
■ Precautions in Handling :

1. Care should be exercised so that flux from the upper part of the printed circuit board does not adhere to the switch.
2. Don't wash switch body ◦

6. Material :

- 6.1 CASE : PBT with glass fiber , flame retardant , heat stabilized(UL94-V0)
- 6.2 HOUSING :POM(UL94-HB) flame retardant , heat stabilized (UL94-HB).
/PA66(UL94-HB), flame retardant , heat stabilized (UL94-HB).
- 6.3 ACTUATOR : PA66 , flame retardant , heat stabilized (UL94-HB).
- 6.4 CONTACTS & TERMINALS: Copper alloy , with gold plate over nickel plate.(R) or silver plate (Q)
- 6.5 TERMINAL SEAL : Epoxy

7. PART NUMBERING OPTION:



8. OPTION :

Contact Option :

OPTION CODE	CONTACT PLATING	TERMINAL PLATING	RATING
Q	Silver Plated	Silver Plated	3A @ 120VAC or 28 VDC;1A@250VAC
R	Gold plated over nickel plated	Gold plated over nickel plated	0.4 VA MAX @20 V AC OR DC MAX