SH 7			Technical Standards	Standard	7.1
E-SPEC-09		00		Edition	E2
E-SP	EC-	09	T80-S Specification	Page	1/5
1.	Style	2:			
	This	s specification des	cribes slide switch mainly used as small curr	ent and signal switch of electric	
		-	al required of mechanical and characteristics.		
	Ope	erating and storage	e temperature range:-30°C~+85°C		
2.			<i>SVAC</i> /3A,250VAC or 28VDC		
3.		of Actuation : Ac	tuated by sliding.		
4.	-	ammer of test :		[
peculiarity	ITEM		TEST CONDITION	REQUIREMENTS	
	1	Visual Examination	By visual examination check without any pressure and testing	There shall be no defect th function of the product	at affect th
ARACTERISTICS	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. 	10mΩ MAX(initial)	
ELECTRIC CH	3	Insulation Resistance	500VDC,1min±5sec	1000MΩ MI	N
ELEC	4	Dielectric withstanding voltage	1500VAC (50Hz or 60 Hz) shall be applied between all the adjacent terminals and between the terminal and the frame for 1 minute.	nd There shall be no breakdown or flashov	
MECHANICAL CHARATERISTICS	5	Operating Force	Applied in direction operation	10N max	
MEC CHARA	6	Stop Strength	A static load of 30N is applied in the operating direction and pulling direction operated for a period of 30 seconds.		of damag

SH		E-SPEC-09		.09	T80-S Specification			
MECHANICAL CHARATERISTICS	7	S	Soldering Heat Resistance	(1) S (2) (3)	ough hole type oldering Temperature : 260±5°C Duration of Solder Immersion : 5±1sec Frequency of Soldering Process,2 times Max CB is 1.6mm in thickness)	As show in item2~6		
DURABILITY	8	(Operation Life	the test ①3A,23 ②Rate	ements shall be made following set forth below: 50VAC resistive load of Operation : 6~8cycles/minute e of Operation : 30,000cycles	As show in item 3.4		
	9	R	Resistance Low Temperature	sample tempera for an made ①Temp	ing the test set forth below the shall be left in normal ature and humidity conditions hour before measurements are perature : -30±3°C : 48 hours	As show in item 2~6		
WEATHER-PROFF	10	R	Resistance high Temperature	sample tempera for an made ①Temp	ing the test set forth below the shall be left in normal ature and humidity conditions hour before measurements are perature : 85±3°C : 48 hours	As show in item 2~6		
	11	Res	istance Humidity	sample tempera for an made ①Temp ②Relat	ing the test set forth below the shall be left in normal ature and humidity conditions hour before measurements are perature : 40±2°C ive Humidity : 90-95%RH : 48 hours	 As show in item 4~6 Contact Resistance:100mΩ Insulation Resistance:10MΩ 		

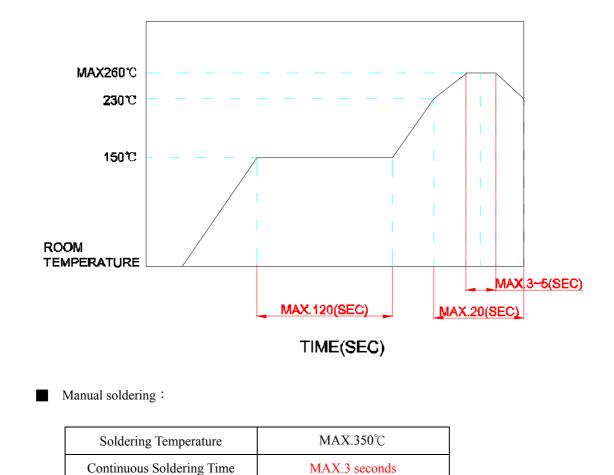
5. Safety Approval:

5.1 This series carry the UL approvals and c-UL(the same effect with CSA)

- **5.2** The File no.of UL:E123142
- **5.3** The applying category no.of UL:T80-S
- **5.4** The File no.of TUV:R50132949
- 5.5 The applying category no.of TUV:T80-S1 、 T80-S2
- 5.6 The File no.of CQC:CQC08002027717
- 5.7 The applying category no.of CQC:T80-S1 T80-S2

6. Soldering Condition

Condition for soldering



■ 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.

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C	L
N.	

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7. Material :

7.1 CACE : diallyl phthalate(DAP)(UL94V-0)

7.2 SLIDE HANDLE : Nylon

7.3 HOUSING: Stainless Steel

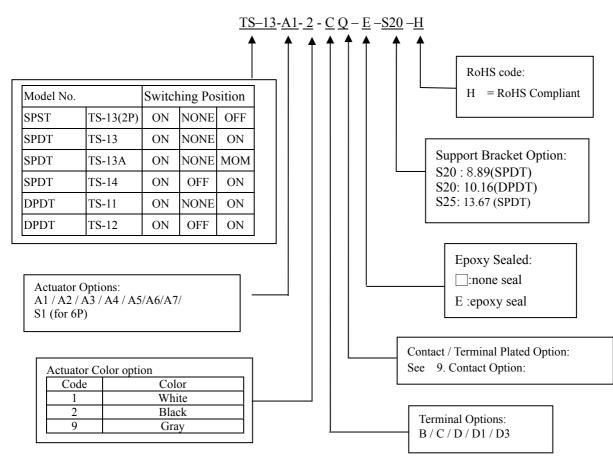
7.4 END CONTACTS : Copper alloy , silver or gold plated

7.5 CENTER CONTACTS & ALL TERMINALS : Copper alloy , silver or gold plated

7.6 TERMINAL SEAL : Epoxy

8. PART NUMBERING OPTION:

8.1



SH	E-SPH			,	Т80	-S S	Specifica	ation	
8.2			<u>TS–1</u> :	<u>3P-4</u>	<u>41-2</u> ↑ ↑	- <u>Q</u> −]	<u>E</u> – <u></u>] – <u>H</u> ▲	
Horizon Right Angle	Vertical Right Angle	Switches Func	etion						RoHS
TS-13P(2P)	TS-13L(2P)	SPST on-none-o	off						H =
TS-13P	TS-13L	SPDT on-none-	on						

15-15E(21)	SI SI OII-IIOIIC-OII	
TS-13L	SPDT on-none-on	
TS-13LA	SPDT on-none-mom	
TS-14L	SPDT on-off-on	
TS-11L	DPDT on-none-on	
TS-12L	DPDT on-off-on	
	TS-13L TS-13LA TS-14L TS-11L	TS-13LSPDT on-none-onTS-13LASPDT on-none-momTS-14LSPDT on-off-onTS-11LDPDT on-none-on

Actuator Options: A1 / A2 / A3 / A4 / A5 / A6/ S1 (for 6P)

RoHS code: H = RoHS Compliant
Support Bracket: : straight type (std.) S : snap-in type
Epoxy Sealed: : none seal E : epoxy seal
Contact / Terminal Plated Option: See 9. Contact Option:

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Actuator Color option						
Code	Color					
1	White					
2	Black					
9	Gray					

9. Contact Option:

OPTION	CONTACT PLATING	TERMINAL PLATING	RATING		
CODE	CONTRETTERTING	I ERWIIYAE I EATIIYO			
Q	Silver plated	Silver plated	6A@125VAC or 28 V DC;3A@250VAC		
R	Gold plated over nickel	Gold plated over nickel	0.4 VA MAX @20 V AC or DC MAX		
ĸ	plated	plated	0.4 VA MAX @20 V AC 61 DC MAX		
G	Gold plated over silver	Gold plated over silver	0.4VA MAX @20 V AC or DC MAX or		
U	plated	plated	6A@ 125VAC or 28 V DC;3A@250VAC		
K	Gold plated over nickel	Tin over nickel plated	0.4 VA MAX @20 V AC or DC MAX		
	plated	The over maker plated	0.4 VA MAX @20 V AC OI DC MAX		