

DATA SHEET 数据表

BONSDA CODE : TSR-08
代码

DESCRIPTION : ROTARY DIP SWITCH
描述

CUSTOMER APPROVAL 客户确认

PART NO. : _____
料号

SIGNATURES : _____
签章

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1. Style:

This specification describes "Rotary Switch" mainly used as signal switch of electric devices with the general requirements of mechanical and electrical characteristics.

1.1 Operating / Storage Temperature Range : -40℃ ~ +85℃

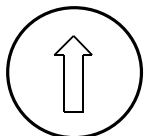
2. Current Range:

2.1 None-Switching : 200mA, 42V

2.2 Switching : 150mA, 42V

3. Type of Actuation : Rotating

4. Test Sequence :

E L E C T R I C P E R F O R M A N C E	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
	1	Visual Examination	By visual examination check without any out pressure & testing.	There shall be no defects that affect the serviceability of the product
	2	Contact Resistance	① To be measured between the two terminals associated with each switch pole ② Measurements shall be made with a 1kHz shall current contact resistance meter	80mΩ max
	3	Insulation Resistance	250V DC, 1minute ±5seconds	100MΩ min
	4	Dielectric withstanding Voltage	250V AC(50Hz or 60Hz)shall be applied between all the adjacent terminal and between the terminal and the frame For 1 minute	There shall be no breakdown or flash over
M A C H I N	5	Operation Force	Applied in the direction of operation 	700gf/cm. max

ROTARY DIP SWITCH SPECIFICATION

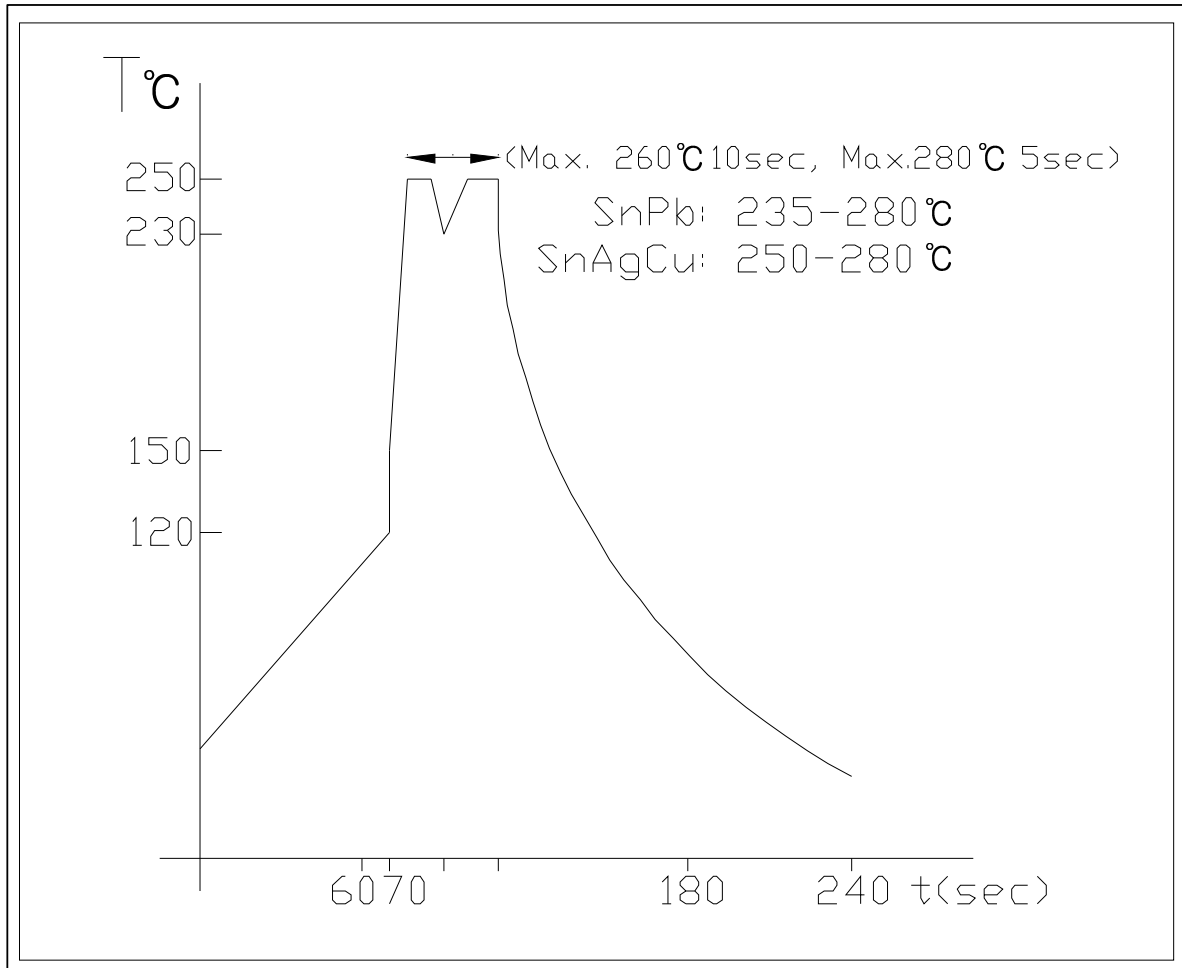
Rev. A
P: 2/4

P E R F O R M A N C E	6	Operation Life	Measurements shall be made following the test set forth below: 1)150mA, 42V DC resistive load 2)Rate of operation: 15~20 cycles/ minute 3)Step of operation: 10,000 steps	1)As shown in item 3,4 2)Contact Resistance: 200mΩ max 3)Final-after test
	7	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: 1)Temperature: -40℃ ±3℃ 2)Time: 96 hours	As shown in item 2~5
	8	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: 1)Temperature: 85℃ ±2℃ 2)Time: 96 hours	1)As shown in item 3~5 2)Contact Resistance: 200mΩ max
	9	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: 1)Temperature: 40℃ ±2℃ 2)Relative humidity: 90~95% 3)Time: 96 hours	1)As shown in item 4 2)Contact Resistance: 200mΩ max 3)Insulation Resistance: 10MΩ min

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5. Wave Soldering Conditions:



6. manual Soldering

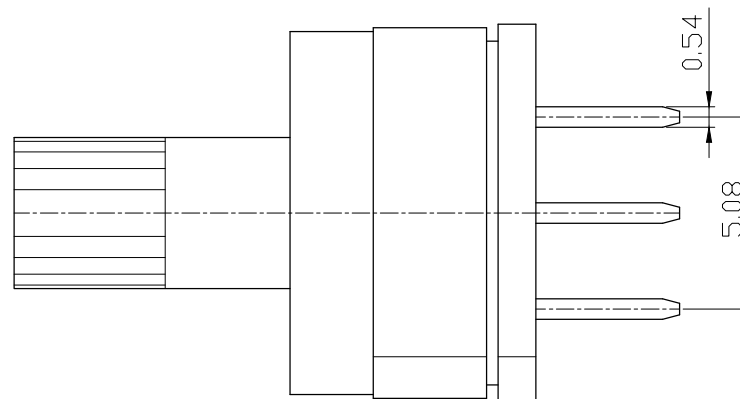
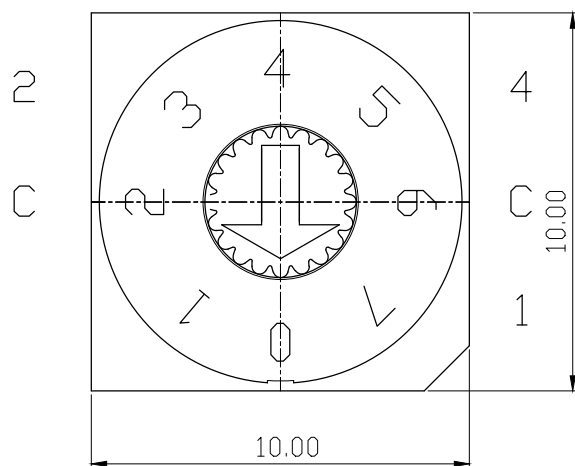
: Max. 350°C Max. 3sec

7. This item is "ROHS" Compliant

8. Part List

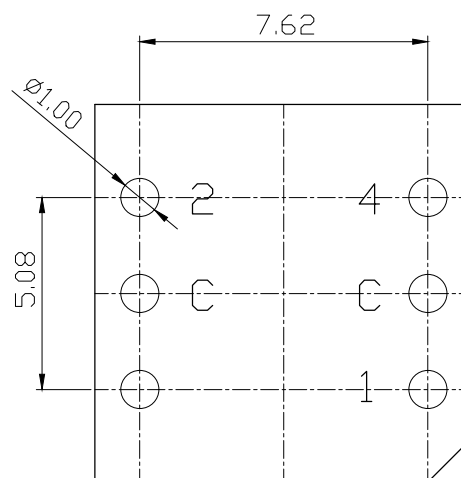
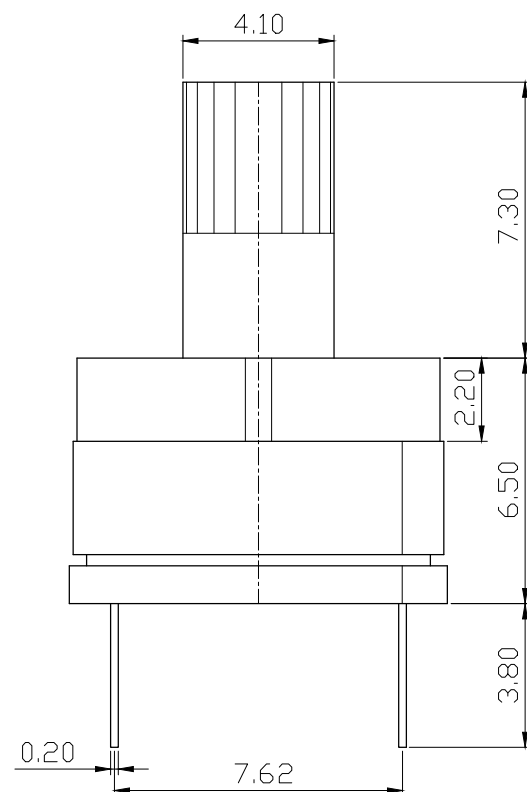
NO	PART NAME	Q'TY	MATERIALS	TREATMENT	REMARK
1	COVER	1	PA66		Print:Black
2	BASE	1			
3	ACTUATOR	1	POM		
4	CONTACT & TERMINAL	1	PHOSPHOR BRONZE	CONTACT AND TERMINAL PLATING: GOLD PLATING OVER NICKEL	Au0.07 μ m Min Ni0.1 μ m Min
5	PCB	1	EPOXY	PLATING: GOLD PLATING	Au0.05 μ m Min
6	O-Ring	1	SILICONE		

MARK	DATE	REMARKS
△		
△		



SPECIFICATION

- Rating : 150mA, 42V DC (Switching)
200mA, 42V DC (None-Switching)
- Contact Resistance : 80mΩ Max
- Insulation Resistance : 100MΩ Min
- Operating Force : 700gf Max
- Life cycle : 10,000 steps



P.C.B DIMENSION

		Real Coded				
8 P o s i t i o n		C	1	2	4	8
	0	●				
	1	●	●			
	2	●		●		
	3	●	●	●		
	4	●			●	
	5	●	●		●	
	6	●		●	●	
	7	●	●	●	●	

APPD	CHKD	D'SGD	TITLE. ROTARY DIP SWITCH			
K.L LEE	J.P ROH	H.S LEE	MODEL NO. TSR-08		REV	A
			BONSDA 深圳市子庚科技有限公司			