50 Ohm SP3T Reflective PIN Diode Switch From 1 to 18GHz Rated at Input Power 1Watts ; *VER. : A*

1 to 18GHz SP3T Reflective PIN Diode Switch SP3TR-010180S_A

1, Configuration

18 GHz,SMA-Female SP3T PIN Diode Switch ;

Reflective ;

Low Insertion Loss 2.8dB ;

Operating Temperature: -45 to +85℃

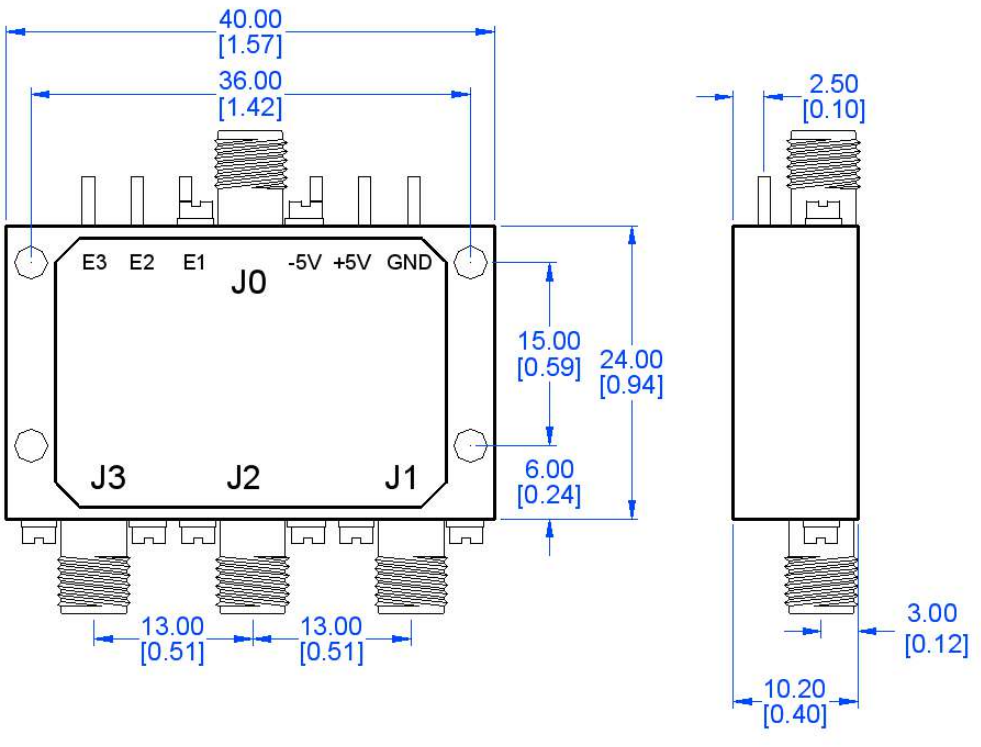
2, Specifications

(Electronic Specification Note : Input Power :-5 to 0dBm , Values at 25deg , sea level. Test indicators will deteriorate at high and low temperature)

Parameter	Unit		Specification	Parameter	Unit	Specification
Freq. Range	GHz	/	1 - 18	Operating Temp.	℃	-45 to +85
Impedance	Ω	/	50	ROHS Compliant	/	Yes
Input Power	W	Max.	1	Input Connectors	/	SMA-Female
Insertion Loss	dB	Max.	2.8	Output Connectors	/	SMA-Female
VSWR	/	Max.	2	Dimension L*W*H	mm	40*24*10.20
Isolation	dB	Min.	60	Weight Max.	g	TBD
Speed	nsec	Max.	100	Surface	/	Gold plated
Power Supply	V/mA	Type	5 / 150	Switching speed is defined as 50% TTL to 90% RF (T - on) and 50% TTL to 10% RF (T - off) .		
			-5 / 50			

Special Request **:**

3, CAD Drawing



Unit : MM / [Inch] , Unless otherwise specified, Outline drawing ±0.2MM ; Hole±0.1MM

Stainless Steel Input and Output Connectors

RF PIN SWITCH Truth Table

TTL Control Voltage：+5V / 0V

SPDT：TTL +5V / 0V （0：JO-J1；1：JO-J2)

SPDT：E2 , E1

Control Input TTL		Signal Path State
E2	**E1**	
1	0	J0-J1
0	1	J0-J2

SP3T：E3 , E2 , E1

Control Input TTL			Signal Path State
E3	E2	E1	
1	1	0	J0-J1
1	0	1	J0-J2
0	1	1	J0-J3

SP4T：E4 , E3 , E2 , E1

Control Input TTL				Signal Path State
E4	E3	E2	E1	
1	1	1	0	J0-J1
1	1	0	1	J0-J2
1	0	1	1	J0-J3
0	1	1	1	J0-J4

SP5T：E5 , E4 , E3 , E2 , E1

Control Input TTL					Signal Path State
E5	E4	E3	E2	E1	
1	1	1	1	0	J0-J1
1	1	1	0	1	J0-J2
1	1	0	1	1	J0-J3
1	0	1	1	1	J0-J4
0	1	1	1	1	J0-J5

SP6T：E6 , E5 , E4 , E3 , E2 , E1

Control Input TTL						Signal Path State
E6	E5	E4	E3	E2	E1	
1	1	1	1	1	0	J0-J1
1	1	1	1	0	1	J0-J2
1	1	1	0	1	1	J0-J3
1	1	0	1	1	1	J0-J4
1	0	1	1	1	1	J0-J5
0	1	1	1	1	1	J0-J6

SP16T：E4 , E3 , E2 , E1

Control Input TTL				Signal Path State
E4	E3	E2	E1	
0	0	0	0	J0-J1
0	0	0	1	J0-J2
0	0	1	0	J0-J3
0	0	1	1	J0-J4
0	1	0	0	J0-J5
0	1	0	1	J0-J6
0	1	1	0	J0-J7
0	1	1	1	J0-J8
1	0	0	0	J0-J9
1	0	0	1	J0-J10
1	0	1	0	J0-J11
1	0	1	1	J0-J12
1	1	0	0	J0-J13
1	1	0	1	J0-J14
1	1	1	0	J0-J15
1	1	1	1	J0-J16

SP7T：E7 , E6 , E5 , E4 , E3 , E2 , E1

Control Input TTL							Signal Path State
E7	E6	E5	E4	E3	E2	E1	
1	1	1	1	1	1	0	J0-J1
1	1	1	1	1	0	1	J0-J2
1	1	1	1	0	1	1	J0-J3
1	1	1	0	1	1	1	J0-J4
1	1	0	1	1	1	1	J0-J5
1	0	1	1	1	1	1	J0-J6
0	1	1	1	1	1	1	J0-J7

SP8T：E8 , E7 , E6 , E5 , E4 , E3 , E2 , E1

Control Input TTL								Signal Path State
E8	E7	E6	E5	E4	E3	E2	E1	
1	1	1	1	1	1	1	0	J0-J1
1	1	1	1	1	1	0	1	J0-J2
1	1	1	1	1	0	1	1	J0-J3
1	1	1	1	0	1	1	1	J0-J4
1	1	1	0	1	1	1	1	J0-J5
1	1	0	1	1	1	1	1	J0-J6
1	0	1	1	1	1	1	1	J0-J7
0	1	1	1	1	1	1	1	J0-J8