

0.5-40GHz Broadband Switch

P/N: SP8T005400GB50A



Description:

The switch is a broadband PIN switch with a typical Loss insertion of 8 dB and a high isolation of 50dB across the frequency range of 0.5 to 40 GHz. The typical switch speed 50ns. The DC power requirement for the switch is +5 V/350 mA -5V/-50mA. Accept customization according to different needs.



- Radar Systems
- Communication Systems
- Receivers Systems

Electrical Specifications (+25°C) :

Parameter	Min.	Typ.	Max.	Units
Frequency Range		0.5-40		GHz
Insertion Loss			10.0	dB
Isolation	50			dB
Input VSWR		2.5	3.0	-
Output VSWR		2.5	3.0	-
Switch Speed		50	100	ns
Power Handling			20	dBm
DC Current (Vcc=+/-5V)		350/-50		mA
Control Logic TTL		Low=0/High=1		-
Impedance		50		Ω
Input Output Connector		2.92-Female/2.92-Female		
Switch Type		Absorption		
Material		Aluminium\Gold Painting		
Weight		100g		
Package Sealing		General Sealing (Standard)		

Environmental Specifications:

- ※ Operational Temperature -45°C~+85°C
- ※ Storage Temperature -55°C~+125°C



OBSERVE
PRECAUTIONS ELECTROSTATIC
SENSITIVE DEVICES

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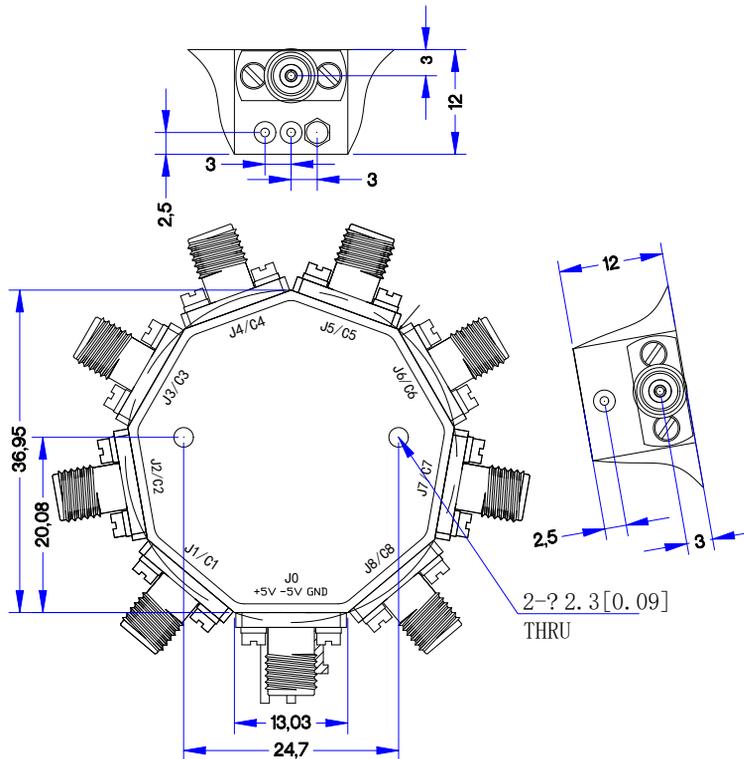
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Outline Drawing

All Dimensions in mm (inches) Tolerance ± 0.25 (0.01)



Truth Table								Signal Path State
Control TTL Input								
C8	C7	C6	C5	C4	C3	C2	C1	
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

TTL Control Voltages & VDD	
Stage	Bias Condition
VDD	+5V ($\pm 5\%$)
VEE	-5V ($\pm 5\%$)
Low	0 to 0.8Vdc
High	2.0 to +5.0Vdc

NOTE:

1. The product is designed to meet environmental ratings but not tested. If you need to test environmental condition, please contact our sales department.
2. Miczen technologies co., Ltd. reserves the right to change the above information without notice.

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