

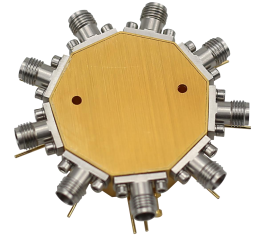
# 1-50GHz Broadband Switch

P/N: SP8T0150GA55A



## Description:

The switch is a broadband PIN switch with a typical Loss insertion of 10 dB and a high isolation of 60 dB across the frequency range of 1 to 50 GHz. The typical switch speed 100ns. The DC power requirement for the switch is +5V/350mA -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		1-50		GHz
Insertion Loss		10	14	dB
Isolation	55	60		dB
Input VSWR			2.5	-
Output VSWR			2.5	-
Switch Speed		100	200	ns
Power Handing			23	dBm
DC Current (Vcc=+/-5V)		350/-50		mA
Control Logic TTL		0/+5		v
Impedance		50		$\Omega$
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 -25°C~+85°C
- ※ Storage Temperature -55°C~+125°C



OBSERVE  
PRECAUTIONS ELECTROSTATIC  
SENSITIVE DEVICES

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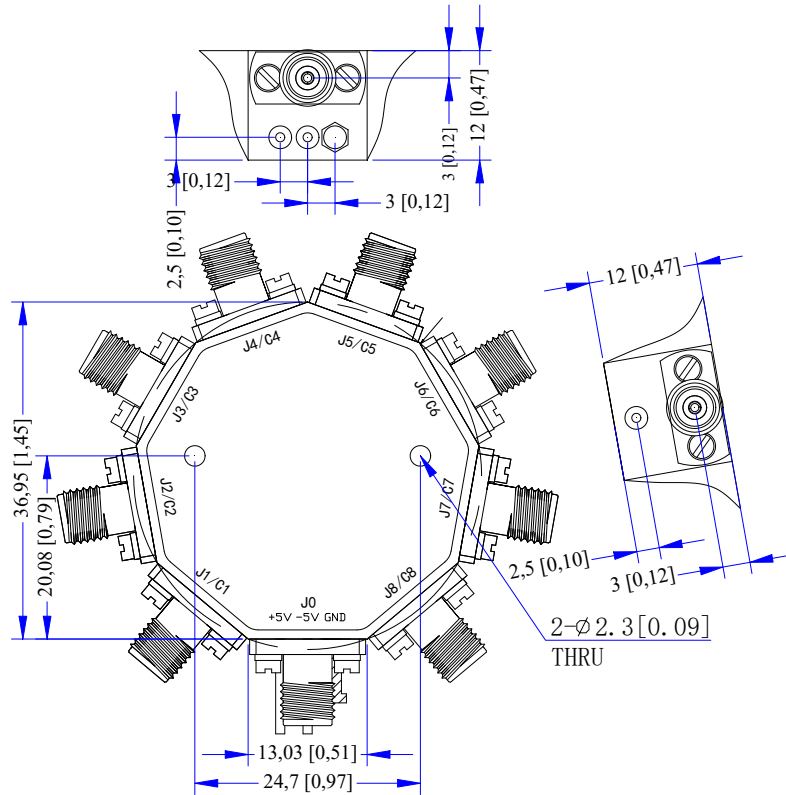
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## ■ Outline Drawing

All Dimensions in mm (inches) Tolerance  $\pm 0.25$  (0.01)



Truth Table								Signal Path State
Control TTL Input								
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

TTL Control Voltages & VDD	
Stage	Bias Condition
VDD	+5V ( $\pm 5\%$ )
VEE	-5V ( $\pm 5\%$ )
Low(0)	0 to 0.8Vdc
High(1)	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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