

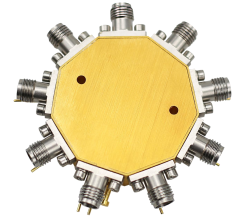
# 1-18GHz Broadband Switch

P/N: SP8T0118GA60A



## Description:

The switch is a broadband PIN switch with a typical Loss insertion of 4.5 dB and a high isolation of 60dB across the frequency range of 0.3 to 18 GHz. The typical switch speed 100ns. The DC power requirement for the switch is +5V/350 mA -5V/-50 mA. Accept customization according to different needs.



- Radar Systems
- Communication Systems
- Receivers Systems

## Electrical Specifications ( +25°C ) :

Parameter	Min.	Typ.	Max.	Units
Frequency Range		1-18		GHz
Insertion Loss		4.5	5	dB
Isolation	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		Ω
Input Output Connector	SMA-Female/SMA-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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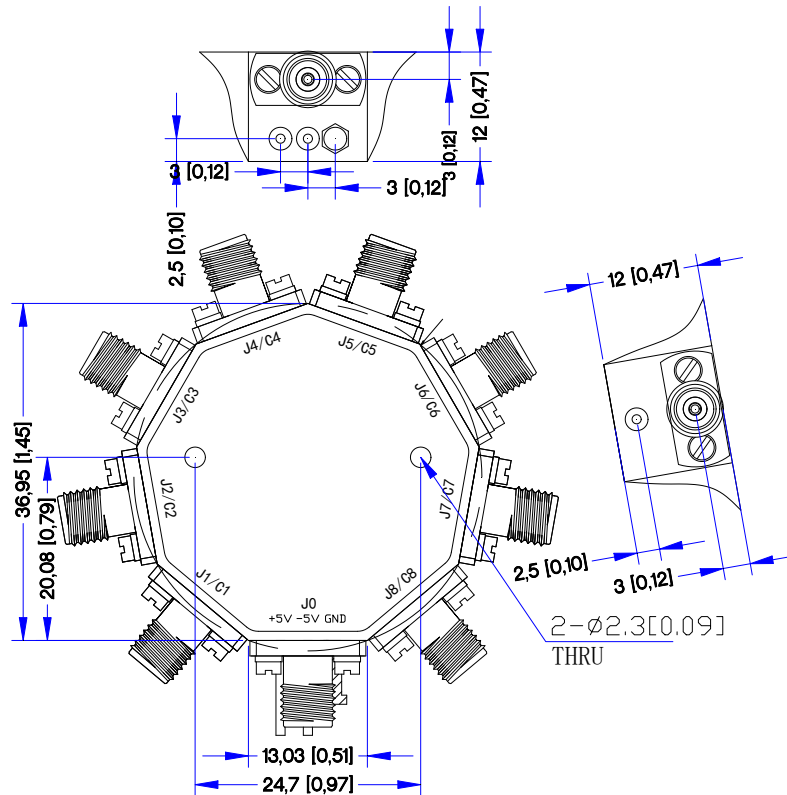
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## ■ Outline Drawing

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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