

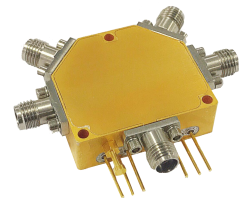
# 0.4-40GHz Broadband Switch

P/N: SP4T004400GA70A



### Description:

The switch is a broadband PIN switch with a typical Loss insertion of 9.3 dB and a high isolation of 58dB across the frequency range of 0.4 to 40 GHz. The typical switch speed 3ms. The DC power requirement for the switch is +5V/200 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		0.4-40		GHz
Insertion Loss(0.4GHz-4GHz)			4.6	dB
Insertion Loss(4GHz-20GHz)			5.3	dB
Insertion Loss(20GHz-40GHz)			9.3	dB
Isolation	58	70		dB
Input VSWR		2.2	2.5	-
Output VSWR		2.2	2.5	-
Switch Speed		1	5	ms
Power Handing			23	dBm
Amplitude consistency		± 1		dB
Phase consistency		± 20		°
DC Current (Vcc=+/-5V)		200/-50		mA
Control Logic TTL		0/+5		v
Impedance		50		Ω
Input Output Connector		2.92-Female/2.92-Female		
Switch Type		Absorption		
Material		Aluminium\Gold Painting		
Weight		-		
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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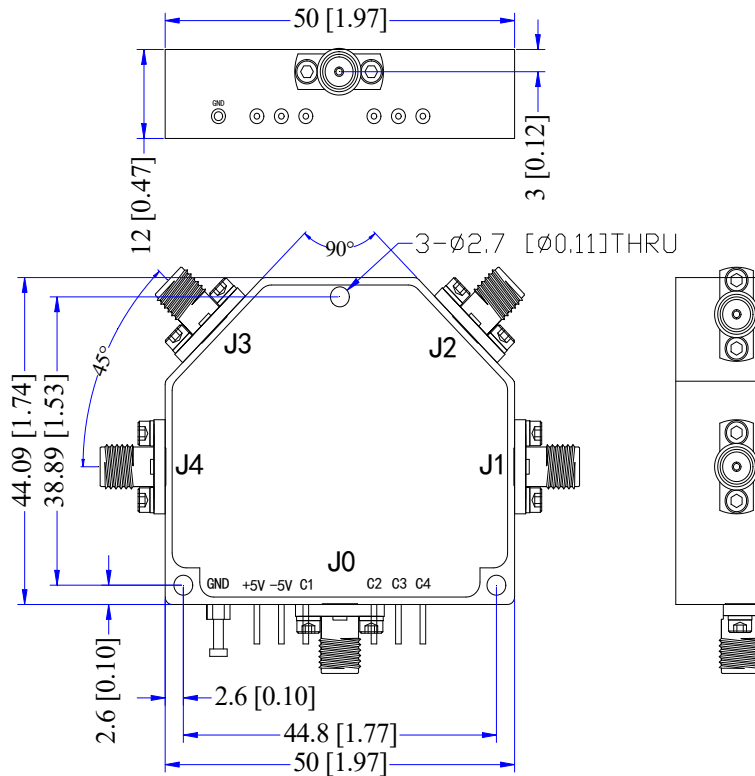
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## ■ Outline Drawing

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



Truth Table				
TTL Control Input				Signal Path State
C4	C3	C2	C1	
1	1	1	0	J0-J1
1	1	0	1	J0-J2
1	0	1	1	J0-J3
0	1	1	1	J0-J4

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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