

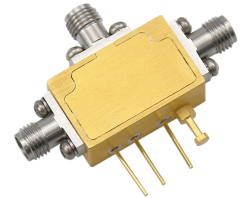
# 1-2GHz Broadband Switch

P/N: SPDT0102GA40A



## Description:

The switch is a broadband PIN switch with a typical Loss insertion of 1.4 dB and a high isolation of 50dB across the frequency range of 1 to 2 GHz. The typical switch speed 100ns. The DC power requirement for the switch is +5V/50 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		1-2		GHz
Insertion Loss		1.4	1.6	dB
Isolation	40	50		dB
Input VSWR		1.5	2	-
Output VSWR		1.5	2	-
Switch Speed		100	200	ns
RF Input Power			30	dBm
DC Current (Vcc=+/-5V)		50/-50		mA
Control Logic TTL		0/+5		v
Impedance		50		Ω
Input Output Connector		SMA-female/SMA-female		
Switch Type		Absorptive		
Material		Aluminium\Gold Painting		
Weight		-		
Package Sealing		General Sealing (Standard)		

## Environmental Specifications:

- ※ Operational Temperature -40°C~+85°C
- ※ Storage Temperature -55°C~+125°C



OBSERVE  
PRECAUTIONS ELECTROSTATIC  
SENSITIVE DEVICES

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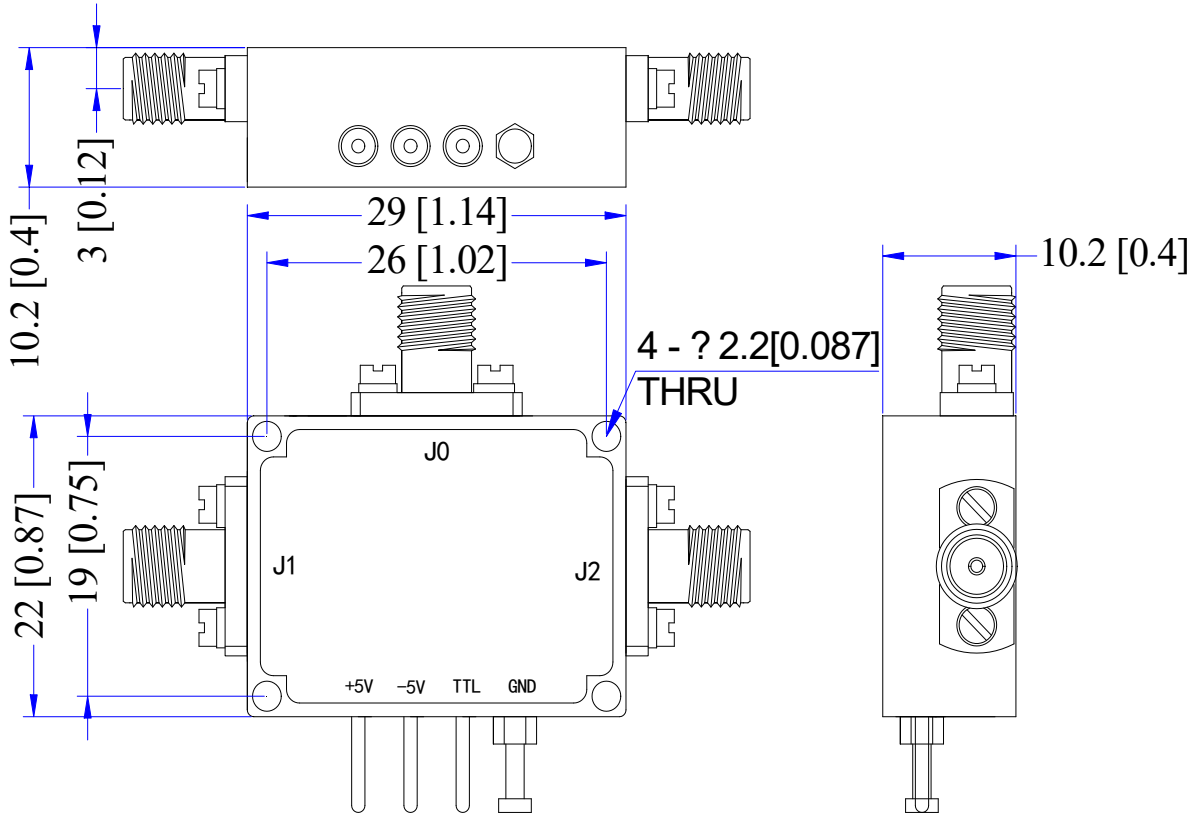
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## ■ Outline Drawing

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



Truth Table	
Control TTL Input	Signal Path State
C1	
0	Jo-J1
1	Jo-J2

TTL Control Voltages & VDD	
Stage	Bias Condition
VDD	+5V ( $\pm 10\%$ )
VEE	-5V ( $\pm 10\%$ )
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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