

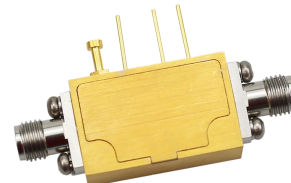
# 0.5-2GHz Broadband Switch

P/N: SPST005020GA80A



## Description:

The switch is a broadband PIN switch with a typical Loss insertion of 1 dB and a high isolation of 80dB across the frequency range of 0.5 to 2 GHz. The typical switch speed 50ns. The DC power requirement for the switch is +5V/30mA,-5V/-30mA. Accept customization according to different needs.



- Radar Systems
- Communication Systems
- Receivers Systems

## Electrical Specifications ( +25°C ) :

Parameter	Min.	Typ.	Max.	Units
Frequency Range		0.5-2		GHz
Insertion Loss		1	1.2	dB
Isolation	80			dB
Input VSWR			1.5	-
Output VSWR			1.5	-
Switch Speed			50	ns
Power Handing			23	dBm
DC Current (Vcc=+/-5V)		30/-30		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		15g		
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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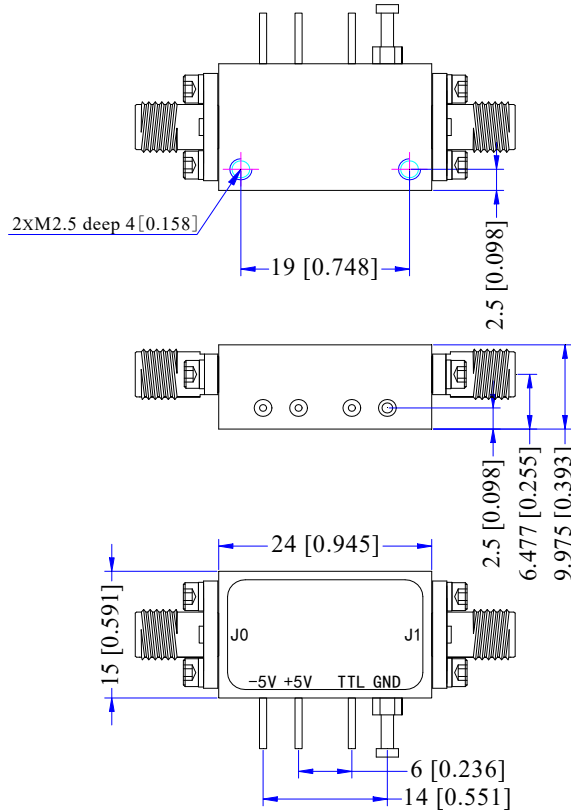
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## ■ Outline Drawing

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



Truth Table	
TTL Control Input	Signal Path State
TTL	
0	Off
1	J0-J1

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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