

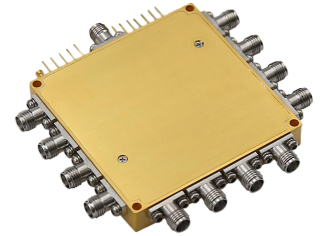
# 12-18 GHz Broadband Switch

P/N: SP12T1218GB60R



## Description:

The switch is a broadband PIN switch with a typical Loss insertion of 5.3 dB and a high isolation of 60dB across the frequency range of 12 to 18 GHz. The typical switch speed 50 ns. The DC power requirement for the switch is +5V/600 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		12-18		GHz
Insertion Loss		5.3	5.5	dB
Isolation	60			dB
Input VSWR		1.5	2	-
Output VSWR		1.5	2	-
Switch Speed		50	100	ns
Power Handling			27	dBm
DC Current (Vcc=+/-5V)		600/-50		mA
Control Logic TTL		Low=0/High=1		-
Impedance		50		$\Omega$
Input Output Connector		SMA-Female/SMA-Female		
Switch Type		Reflective		
Material		Aluminium\Gold Painting		
Weight		-		
Package Sealing		General Sealing (Standard)		

## Environmental Specifications:

- ※ Operational Temperature -45°C~+85°C
- ※ Storage Temperature -55°C~+125°C



OBSERVE  
PRECAUTIONS ELECTROSTATIC  
SENSITIVE DEVICES

MICZEN THCHNOLOGIES CO.,LTD.

Phone: +86 28 65003621 | E-mail: sales@miczen.com | Web: www.miczen.com

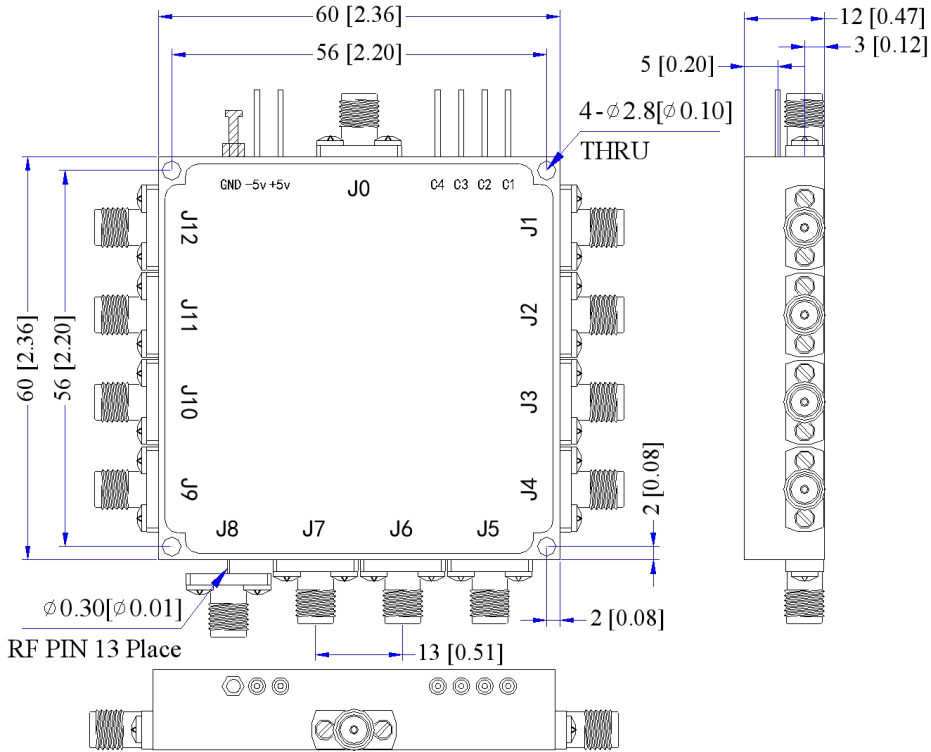
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## ■ Outline Drawing

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



Truth Table				path
c4	c3	c2	c1	
0	0	0	0	J0-J1
0	0	0	1	J0-J2
0	0	1	0	J0-J3
0	0	1	1	J0-J4
0	1	0	0	J0-J5
0	1	0	1	J0-J6
0	1	1	0	J0-J7
0	1	1	1	J0-J8
1	0	0	0	J0-J9
1	0	0	1	J0-J10
1	0	1	0	J0-J11
1	0	1	1	J0-J12

TTL Control Voltages & VDD	
Stage	Bias Condition
VDD	+5V ( $\pm 5\%$ )
VEE	-5V ( $\pm 5\%$ )
Low	0 to 0.8Vdc
High	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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Phone: +86 28 65003621 | E-mail: sales@miczen.com | Web: www.miczen.com