

6-18GHz Broadband Switch

P/N: SP12T0618GB60A



Description:

The switch is a broadband PIN switch with a typical Loss insertion of 4 dB and a high isolation of 60dB across the frequency range of 6 to 18 GHz. The typical switch speed 100ns. The DC power requirement for the switch is +5V/500 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		6-18		GHz
Insertion Loss		4	6	dB
Isolation	50	60		dB
Input VSWR		1.5	2.0	-
Output VSWR		1.5	2.0	-
Switch Speed		100	500	ns
Power Handing			23	dBm
Batch amplitude phase consistency		± 1.5		dB
Repetitive switching stability		0.1dB/3°		-
DC Current (Vcc= \pm 5V)		500/-50		mA
Control Logic TTL		0/+5		V
DC and control interface		J30J-15ZK		-
Impedance		50		Ω
Input Output Connector		SMA-K/SMA-K		
Switch Type		Absorption		
Material		Aluminium\Nickel 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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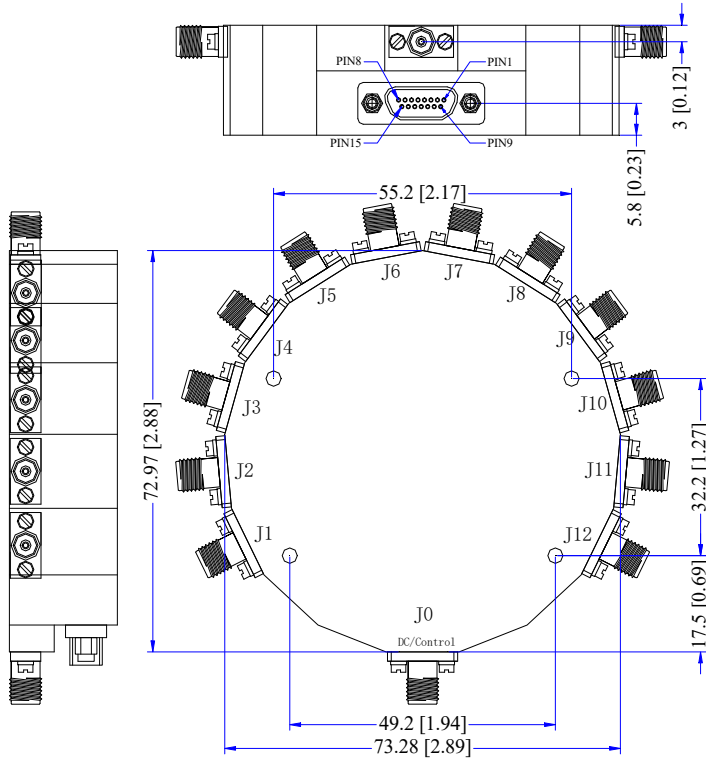
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Outline Drawing

All Dimensions in mm (inches) Tolerance ± 0.25 (0.01)



J30J-15ZK Define	
1	+5V
2	-5V
3	GND
4	C1
5	C2
6	C3
7	C4
8-15	NC

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

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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