

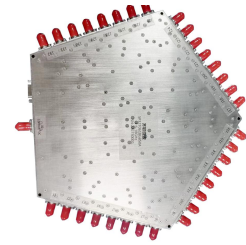
# 6-18GHz Broadband Switch

P/N: SP32T0618GB50A



## Description:

The switch is a broadband PIN switch with a typical Loss insertion of 13 dB and a high isolation of 50 dB across the frequency range of 6 to 18 GHz. The typical switch speed 50ns. The DC power requirement for the switch is +5 V/1300mA -5V/-100mA. 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		13		dB
Isolation	50	55		dB
Input VSWR		1.5	2.5	-
Output VSWR		1.5	2.5	-
Switch Speed		50	100	ns
Phase consistency		±5	±10	°
Phase stability		±2	±5	°
Amplitude consistency		±1	±1.8	dB
Amplitude stability		±0.2	±0.4	dB
Power Handling			0.25	W
Power(+/-5V)		1300/-100		mA
Control Logic TTL		Low=0/High=1		-
Impedance		50		Ω
Input Output Connector		SMA-Female/SMA-Female		
Switch Type		Absorption		
Material		Aluminium\Nickel Painting		
Weight		740g		
Package Sealing		General Sealing (Standard)		

## Environmental Specifications:

- ※ Operational Temperature -25°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

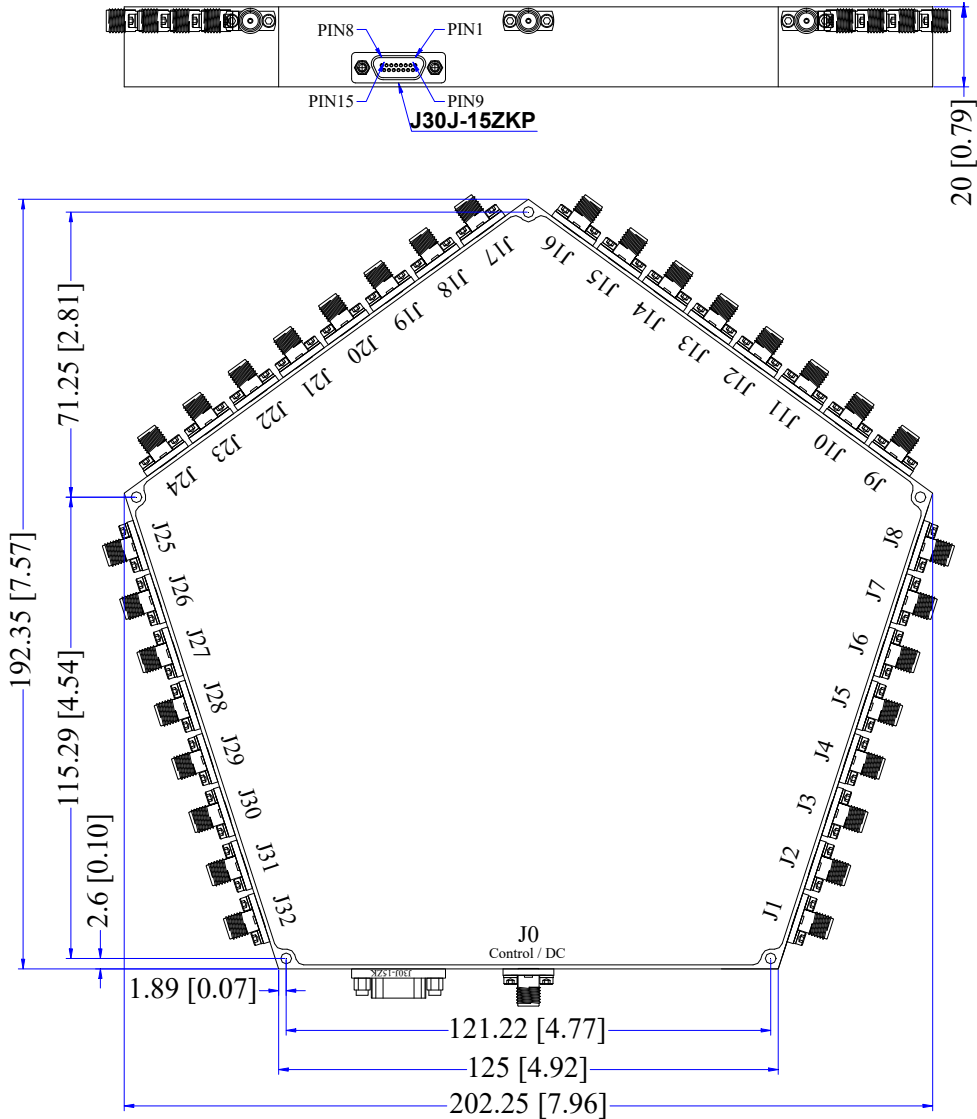
# 6-18GHz Broadband Switch

P/N: SP32T0618GB50A



## ■ Outline Drawing

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



### 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.

MICZEN THCHNOLOGIES CO.,LTD.

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

# 6-18GHz Broadband Switch

P/N: SP32T0618GB50A



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

Truth Table					
C5	Control TTL Input				Signal Path State
	C4	C3	C2	C1	
0	0	0	0	0	Jo-J1
0	0	0	1	0	Jo-J2
0	0	1	0	0	Jo-J3
0	0	1	1	0	Jo-J4
0	1	0	0	0	Jo-J5
0	1	0	1	0	Jo-J6
0	1	1	0	0	Jo-J7
0	1	1	1	0	Jo-J8
1	0	0	0	0	Jo-J9
1	0	0	1	0	Jo-J10
1	0	1	0	0	Jo-J11
1	0	1	1	0	Jo-J12
1	1	0	0	0	Jo-J13
1	1	0	1	0	Jo-J14
1	1	1	0	0	Jo-J15
1	1	1	1	0	Jo-J16
0	0	0	0	1	Jo-J17
0	0	0	1	1	Jo-J18
0	0	1	0	1	Jo-J19
0	0	1	1	1	Jo-J20
0	1	0	0	1	Jo-J21
0	1	0	1	1	Jo-J22
0	1	1	0	1	Jo-J23
0	1	1	1	1	Jo-J24
1	0	0	0	1	Jo-J25
1	0	0	1	1	Jo-J26
1	0	1	0	1	Jo-J27
1	0	1	1	1	Jo-J28
1	1	0	0	1	Jo-J29
1	1	0	1	1	Jo-J30
1	1	1	0	1	Jo-J31
1	1	1	1	1	Jo-J32

J30J-15ZKP Define	
1	C1
2	C2
3	C3
4	C4
5	C5
6	+5V
7	+5V
8	+5V
9	-5V
10	-5V
11	-5V
12	GND
13	GND
14	GND
15	NC