

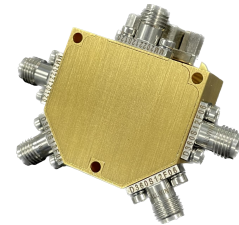
# 0.4-43GHz Broadband Switch

P/N: SP4T004430GA55A



### Description:

The switch is a broadband PIN switch with a typical Loss insertion of 5 dB and a high isolation of 55 dB across the frequency range of 0.4 to 43 GHz. The typical switch speed 50 ns. The DC power requirement for the switch is +5V/100 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		0.4-43		GHz
Insertion Loss		5	5.8	dB
Isolation	45	55		dB
Input VSWR		2.2	2.5	-
Output VSWR		2.2	2.5	-
Switch Speed		50	100	ns
Power Handing			23	dBm
DC Current (Vcc=+/-5V)		100/-50		mA
Impedance		50		Ω
Input Output Connector	2.92-Female/2.92-Female			
Control Connector	MICROD-9P-Female			
Switch Type	Absorption			
Material	Aluminium\Gold Painting			
Weight	50g			
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

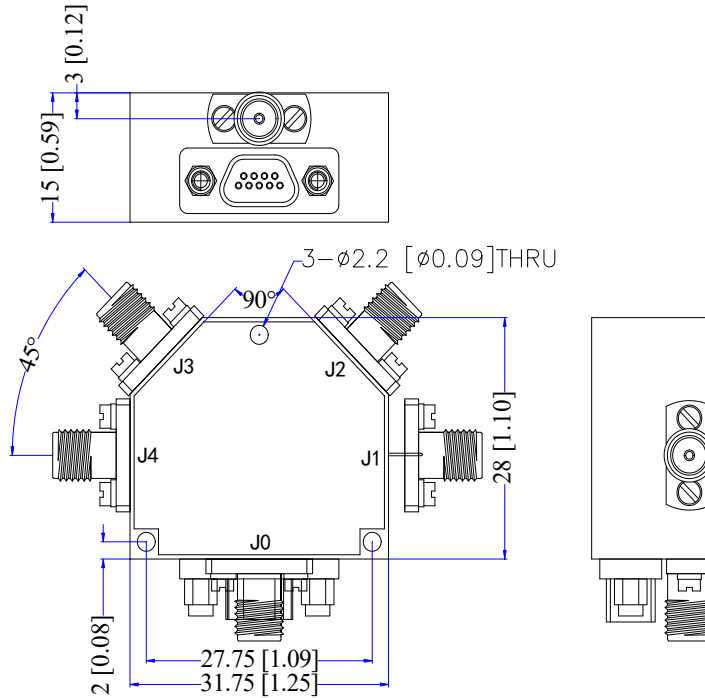
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## ■ Outline Drawing

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



Truth Table			TTL Control Voltages & VDD	
TTL Control Input		Signal Path State	Stage	Bias Condition
C2	C1		VDD	+5V ( $\pm 5\%$ )
0	0	J0-J1	VEE	-5V ( $\pm 5\%$ )
0	1	J0-J2	Low(0)	0 to 0.8Vdc
1	0	J0-J3	High(1)	2.0 to +5.0Vdc
1	1	J0-J4		

MICROD-9P-Female Define	1	2	3	4	5	6	7	8	9
	+5V	-5V	GND	C1	C2	NC	NC	NC	NC

### 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