

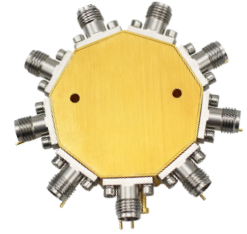
7.5-50GHz Broadband Switch

P/N: SP8T075050GA50A



Description:

The switch is a broadband PIN switch with a typical Loss insertion of 10 dB and a typical isolation of 60dB across the frequency range of 7.5 to 50 GHz. The typical switch speed 100ns. The DC power requirement for the switch is +5 V/300 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 | | 7.5-50 | | GHz |
| Insertion Loss | | 10 | 15 | dB |
| Isolation | 50 | 60 | | dB |
| Input VSWR | | | 3 | - |
| Output VSWR | | | 3 | - |
| Switch Speed | | 100 | 200 | ns |
| Power Handing | | | 23 | dBm |
| DC Current (Vcc=+/-5V) | | 300/-50 | | mA |
| Control Logic TTL | | 0/+5 | | v |
| Impedance | | 50 | | Ω |
| Input Output Connector | | 2.4-Female/2.4-Female | | |
| Switch Type | | Absorption | | |
| Material | | Aluminium\Gold Painting | | |
| Weight | | 100g | | |
| 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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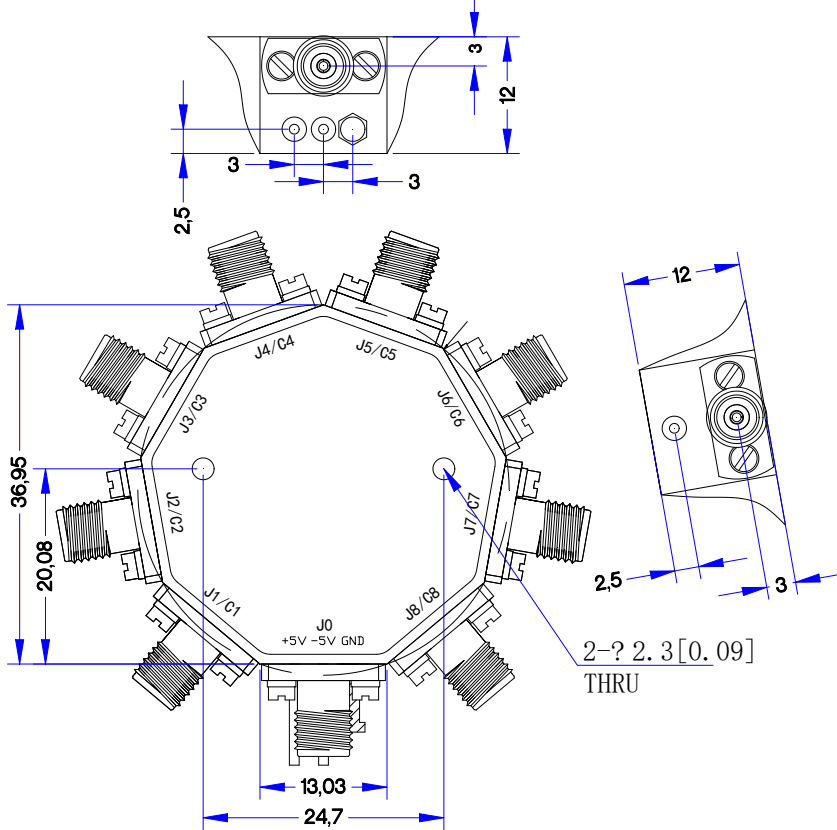
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Outline Drawing

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



| Truth Table | | | | | | | | Signal Path State |
|-------------------|----|----|----|----|----|----|----|-------------------|
| Control TTL Input | | | | | | | | |
| E8 | E7 | E6 | E5 | E4 | E3 | E2 | E1 | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | J0-J1 |
| 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | J0-J2 |
| 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | J0-J3 |
| 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | J0-J4 |
| 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | J0-J5 |
| 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | J0-J6 |
| 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | J0-J7 |
| 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | J0-J8 |

| 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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