

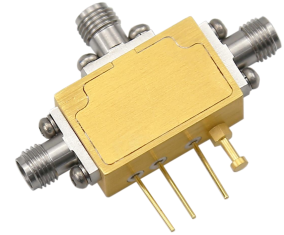
# 8-12GHz Broadband Switch

P/N: MZSPDT0812GR



## Description:

The switch is a broadband PIN switch with a typical Loss insertion of 2.0 dB and a high isolation of 60dB across the frequency range of 8 to 12 GHz. The typical switch speed 50ns. The DC power requirement for the switch is +/-5 V/50 mA. Accept customization according to different needs.



- Radar Systems
- Communication Systems
- Receivers Systems

## Electrical Specifications ( +25°C ) :

Parameter	Min.	Typ.	Max.	Units
Frequency Range		8-12		GHz
Insertion Loss		2.0	2.2	dB
Isolation	60			dB
Input VSWR		1.5	2.0	-
Output VSWR		1.5	2.0	-
Switch Speed	30ns RISE TIME 30ns FALL TIME 50ns DELAY ON 50ns DELAY OFF			ns
RF Input Power	20dBm(Operating) ;30dBm(Survival)			-
IIP3		65		dBm
DC Current (Vcc=+/-5V)		50/75		mA
Control Logic TTL		"0"=ON ; "1"=OFF		v
Impedance		50		Ω
Input Output Connector		SMA-female/SMA-female		
Switch Type		Reflective		
Material		Aluminium\Gold 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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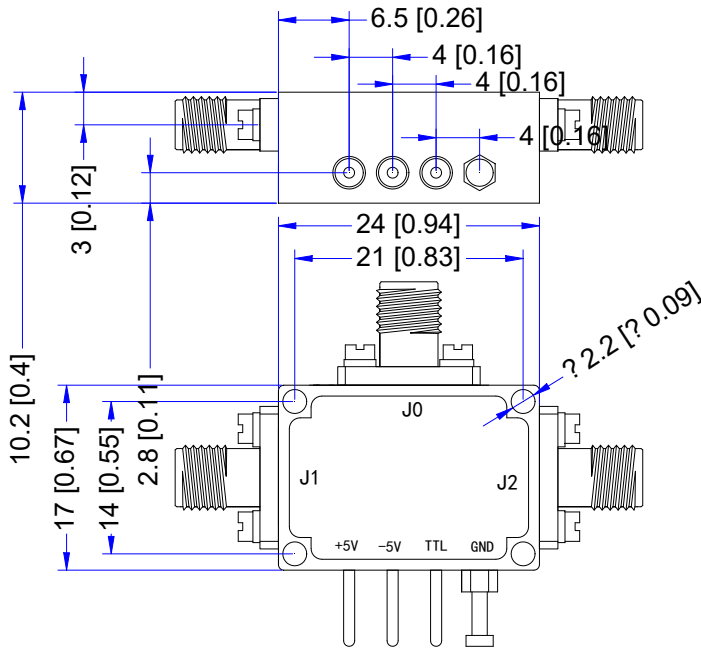
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## ■ Outline Drawing

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



Truth Table	
TTL Control Input	Signal Path State
C1	
0	J0-J1
1	J0-J2

TTL Control Voltages &VDD	
Stage	Bias Condition
VDD	+5V ( $\pm 10\%$ )
VEE	-5V ( $\pm 10\%$ )
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.

**MICZEN THCNOLOGIES CO.,LTD.**

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