

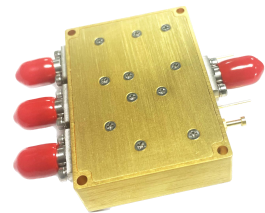
# 0.5-10GHz Broadband Switch

P/N: MZSP3T00510GA



## Description:

The switch is a broadband PIN switch with a typical Loss insertion of 2.5 dB and a high isolation of 70dB across the frequency range of 0.5 to 10 GHz. The typical switch speed 50ns. The DC power requirement for the switch is +/-5 V/100 mA. Accept customization according to different needs.



- Radar Systems
- Communication Systems
- Receivers Systems

## Electrical Specifications ( +25°C ) :

Parameter	Min.	Typ.	Max.	Units
Frequency Range		0.5-10		GHz
Insertion Loss		2.5	2.7	dB
Isolation	70			dB
Input VSWR		1.6	1.8	-
Output VSWR		1.6	1.8	-
Switch Speed		40	50	ns
Power Handing			23	dBm
DC Current (Vcc=+/-5V)		100/50		mA
Control Logic TTL		0/+5		v
Impedance		50		Ω
Input Output Connector	SMA-Female/SMA-Female			
Switch Type	Absorptive			
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

MICZEN THCHNOLOGIES CO.,LTD.

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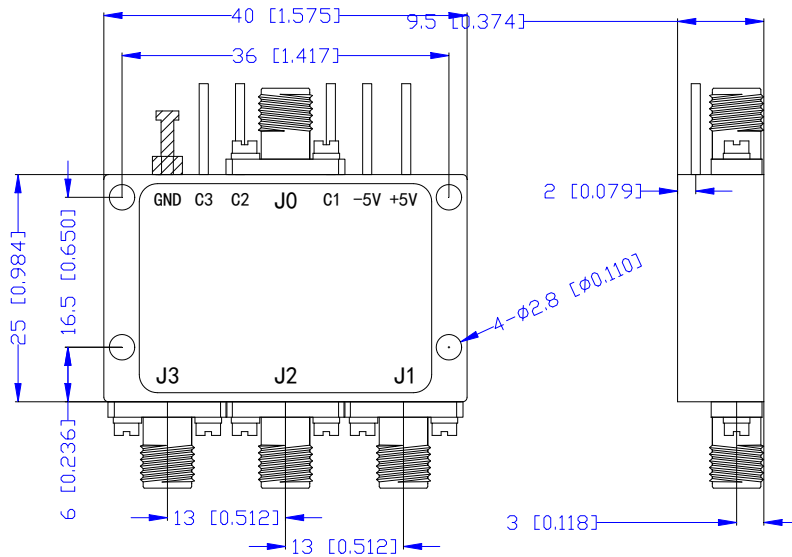
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## ■ Outline Drawing

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



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

Truth Table			
Control TTL Input			Signal Path State
C2	C1	C0	
0	0	1	J0-J1
0	1	0	J0-J2
1	0	0	J0-J3

### 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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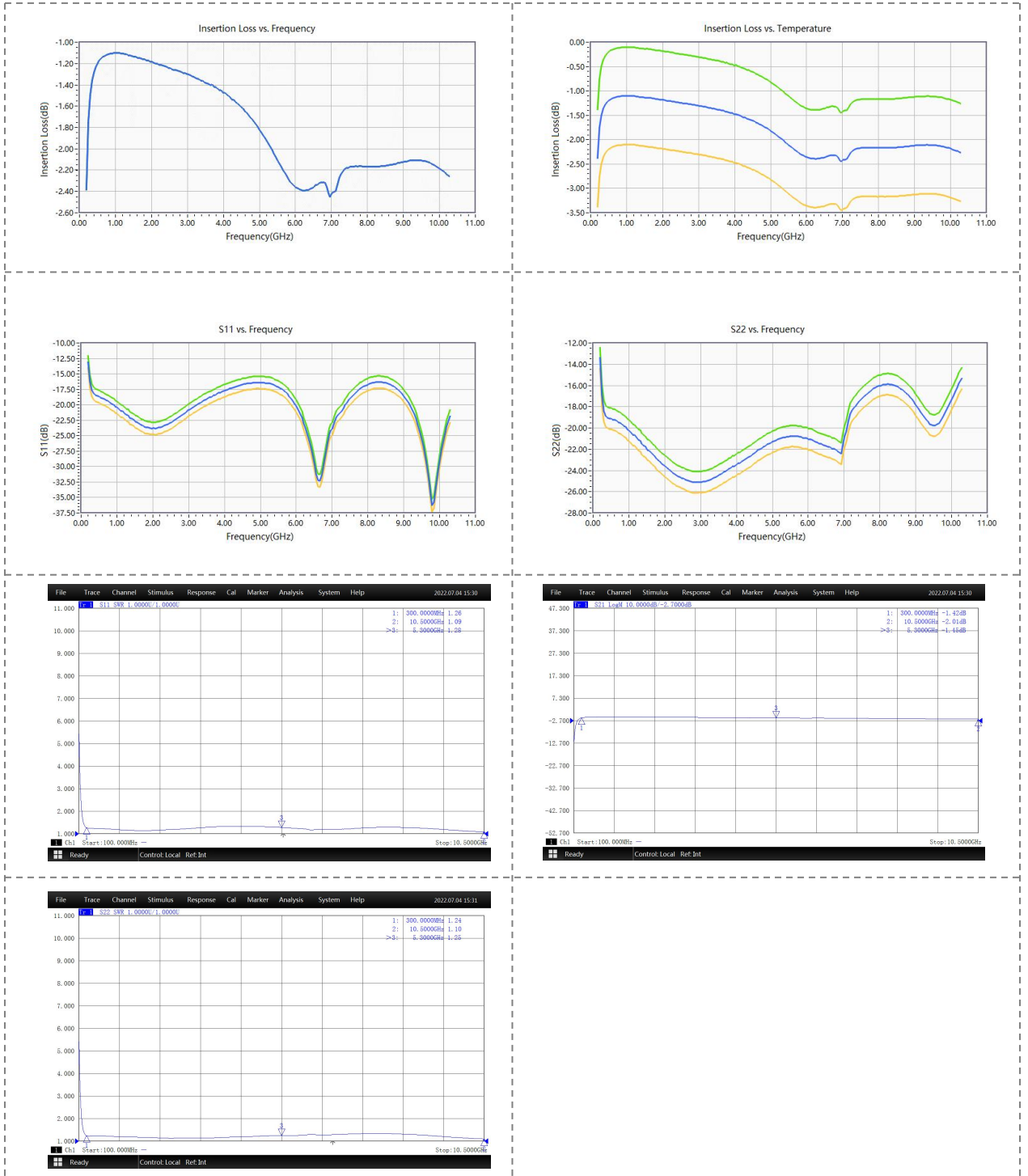
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## Performance Plot



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