

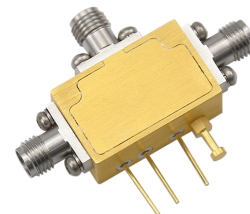
0.5-18GHz Broadband Switch

P/N: QLSPDT005180GB



Description:

The switch is a broadband PIN switch with a typical Loss insertion of 2.5dB and a high isolation of 65dB across the frequency range of 0.5 to 18 GHz. The typical switch speed 100ns. The DC power requirement for the switch is +/-5 V/600 mA. Accept customization according to different needs.



- Radar Systems
- Communication Systems
- Receivers Systems

Electrical Specifications (+25°C) :

Parameter	Min.	Typ.	Max.	Units
Frequency Range		0.5-18		GHz
Insertion Loss		2.5	3.5	dB
Isolation	60	65		dB
Input VSWR		1.5	2.0	-
Output VSWR		1.5	2.0	-
Switch Speed		100		ns
Power Handing			30	dBm
IIP3	50	55		dBm
DC Voltage		+5/-5		V
DC Current (Vcc=+/-5V)		50/40		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	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

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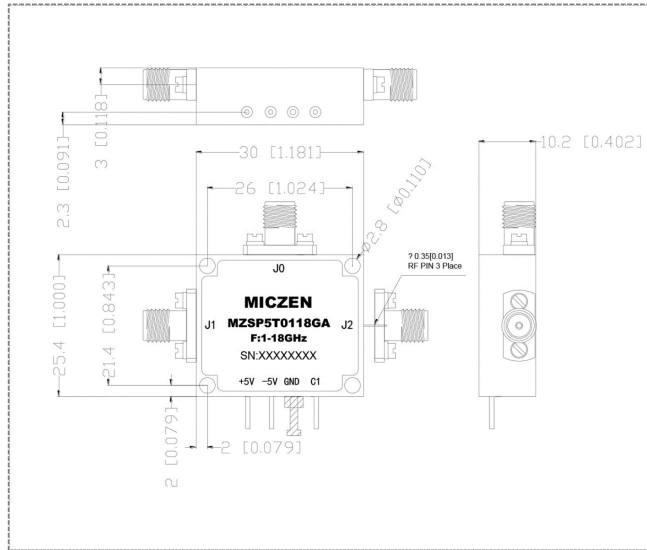
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Outline Drawing

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



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

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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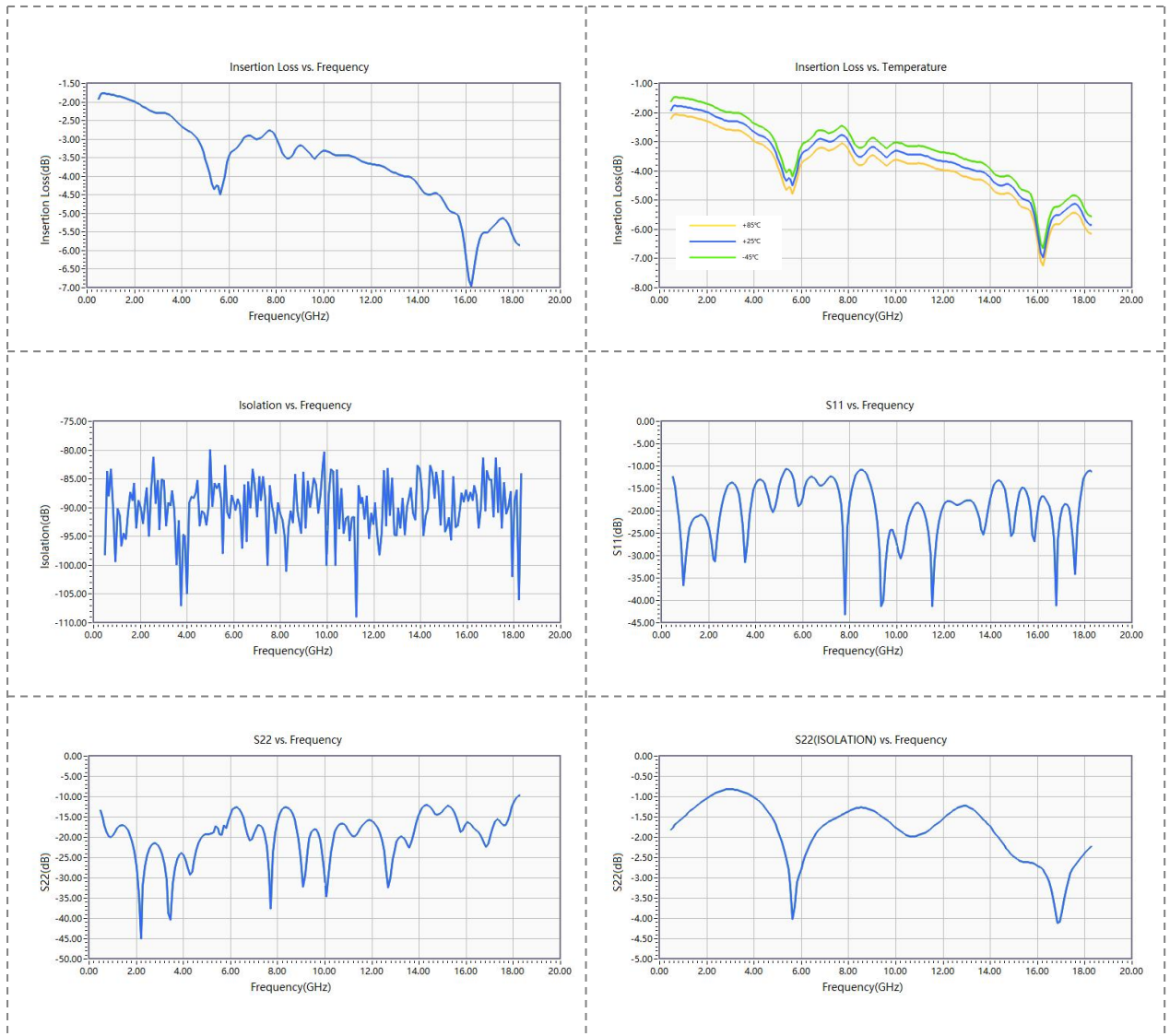
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Performance Plot



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