

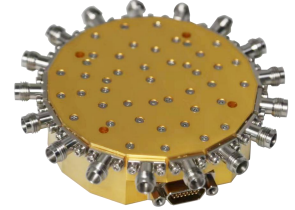
0.5-40GHz Broadband Switch

P/N: SP16T005400GE55A



Description:

The switch is a broadband PIN switch with a typical Loss insertion of 10 dB and a high isolation of 55 dB across the frequency range of 0.5 to 40 GHz. The typical switch speed 50ns. The DC power requirement for the switch is +5 V/600mA -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		0.5-40		GHz
Insertion Loss		10	14	dB
Isolation	45	55		dB
Input VSWR		2.2	2.5	-
Output VSWR		2.2	2.5	-
Switch Speed		50	100	ns
Power Handling			23	dBm
Power(+/-5V)		600/-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		160g		
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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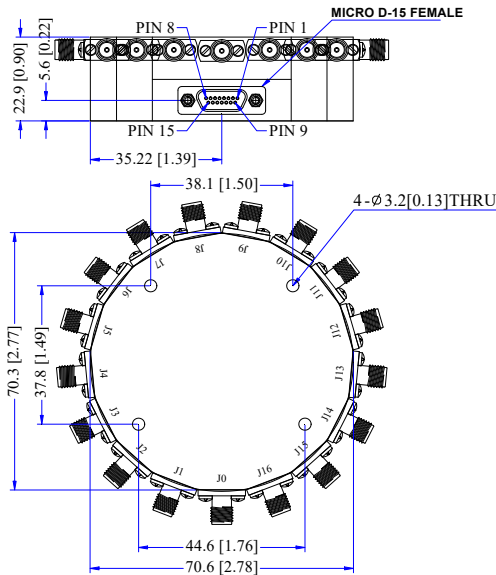
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■ Outline Drawing

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



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

Truth Table				
Control TTL Input				Signal Path State
C4	C3	C2	C1	
0	0	0	0	Jo-J1
0	0	0	1	Jo-J2
0	0	1	0	Jo-J3
0	0	1	1	Jo-J4
0	1	0	0	Jo-J5
0	1	0	1	Jo-J6
0	1	1	0	Jo-J7
0	1	1	1	Jo-J8
1	0	0	0	Jo-J9
1	0	0	1	Jo-J10
1	0	1	0	Jo-J11
1	0	1	1	Jo-J12
1	1	0	0	Jo-J13
1	1	0	1	Jo-J14
1	1	1	0	Jo-J15
1	1	1	1	Jo-J16

MICRO D-15 FEMALE Define	
1	C1
2	C2
3	C3
4	C4
5	NC
6	NC
7	NC
8	NC
9	GND
10	+5V
11	-5V
12	GND
13	+5V
14	-5V
15	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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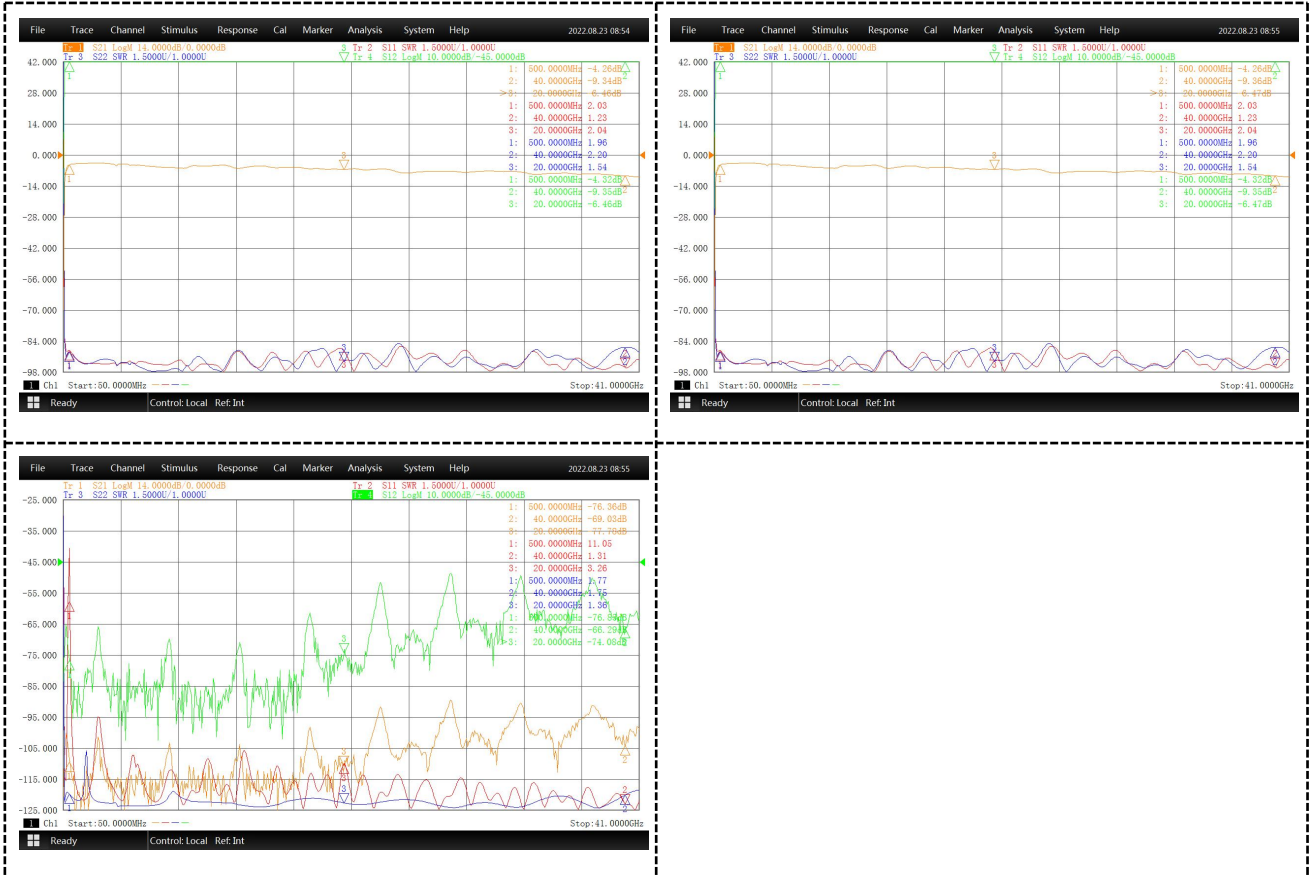
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Performance Plot



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