

Full W Band 75-110GHz SP4T Switch



Description:

AT-SP4T-75110T2 is a SP4T switch covering 75-110GHz. This module offers a low insertion loss of -6.5 dB with typical isolation of -40dB.

It also has good return loss from 75-110GHz band in both ON and OFF state. The input and output connectors are WR-10. Other connectors can be provided according to request.

More information, visit www.atmicrowave.com

Feature

- ✓ Frequency: 75-110GHz
- ✓ Low insertion Loss, -6.5 dB
- ✓ High isolation: -40dB
- ✓ Very fast speed

Application

- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System
- ✓ Telecom Communication

Electronical Specifications:

Parameter	Min	Typical	Max
Frequency		75-110GHz	
Insertion Loss		-6.5dB	-10
Isolation	-25dB	-40 dB	
Return Loss RFC		-10dB	
Return Loss RF1/2/3/4		-7dB	
Input P1dB		+20dBm	
Switching Time		100ns	
Vdd		+5V	
Current		100uA	
Control		TTL	
P1dB		+20dBm	
Spec Temp		25C	





AT-SP4T-75110T2

75-110GHz SP4T Switch

Mechanical Information

Item	Description
RF Input Port	WR-10 with UG-387/U-M anti-cocking Flange.
RF Output Port	WR-10 with UG-387/U-M anti-cocking Flange.
Case Material	Copper
Finish	Gold Plated
Weight	260g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Bias Voltage	+7V
RF Input Power	+22dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

Truth Table

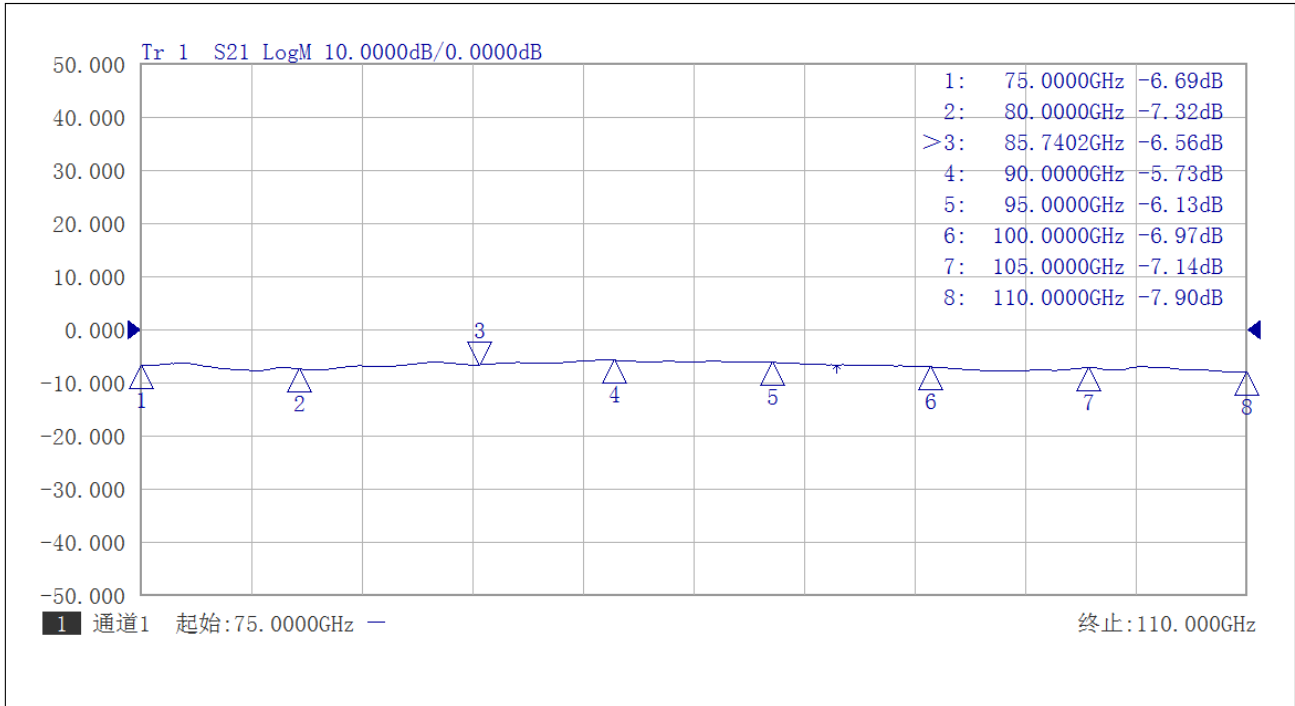
C1	C2	ON
0	0	RF1
1	0	RF2
0	1	RF3
1	1	RF4

TTL Voltage

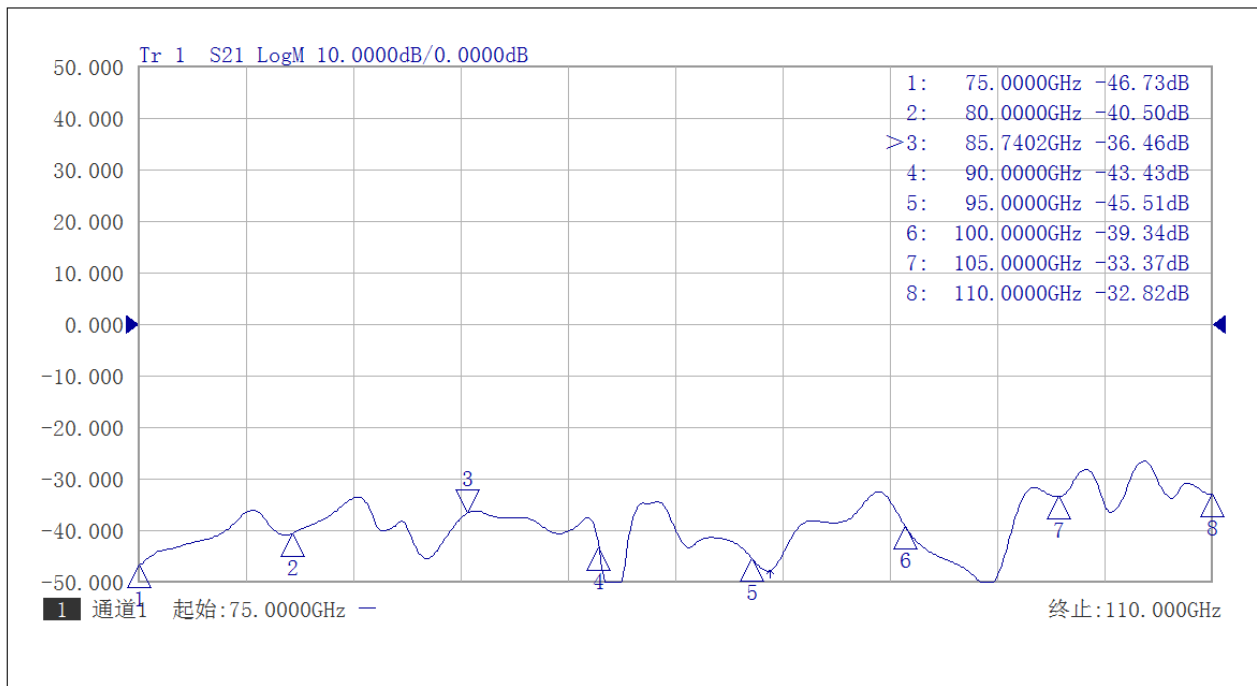
TTL	Voltage
High	2.0 to 5.5V
Low	0 to 0.8V



Test Data

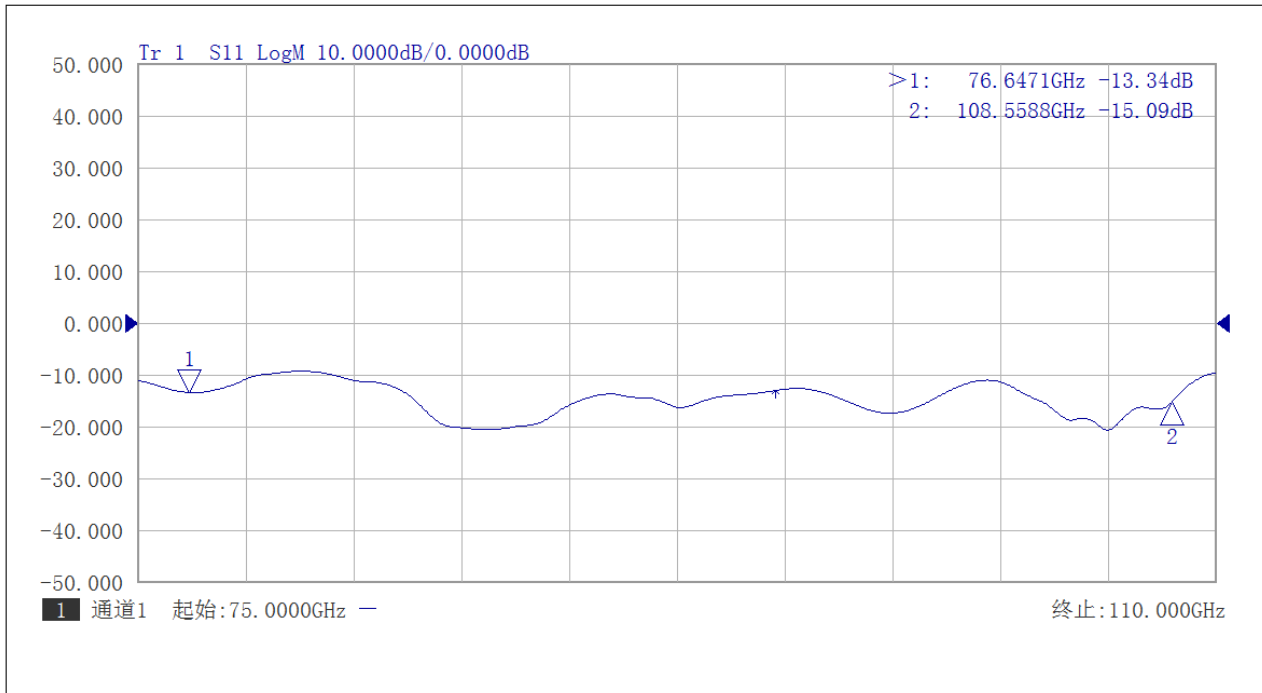


Insertion loss vs Frequency, RF ON

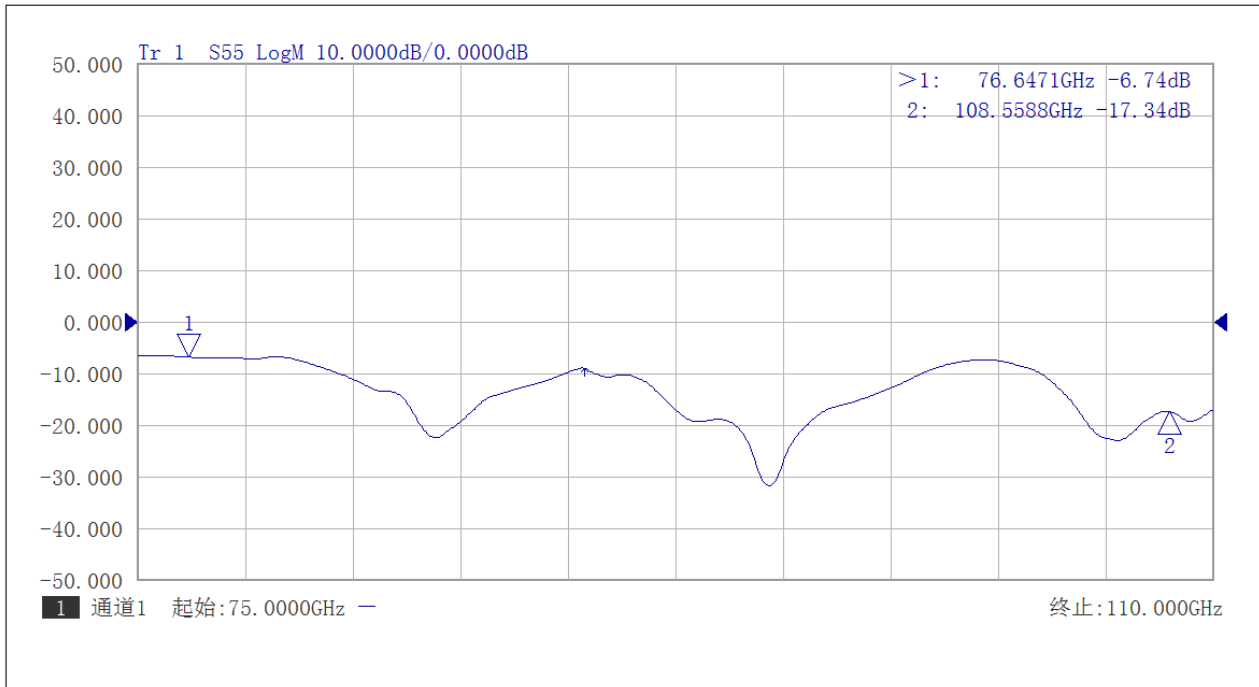


Isolation vs Frequency, RF OFF





RFC Return Loss vs Frequency



RF Out Return Loss vs Frequency



