

Full W Band 75-110GHz, WR-10

High Isolation, SPDT Switch with TTL Control



Description:

AT-SPDT-75110T2 is a SPDT (Single pole double throw) switch with TTL control covering 75-110GHz. This module offers a low insertion loss of -6 dB with typical isolation of -40dBc.

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, -6.0 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		-6.0dB	-10dB
Isolation	-35dB	-40 dB	
Return Loss RFC		-7dB	
Return Loss RF1/2		-5dB	
Input P1dB		+20dBm	
Switching Time		100ns	
Vdd		+5V	
Current		100uA	
Control Voltage		TTL=0/1	
Spec Temp		25C	





AT-SPDT-75110T2

75-110GHz SPDT 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	188g
Size:	See outline

Absolute Maximum Ratings Table

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

Notes:

1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

Truth Table

TTL	RFC to RF1	RFC to RF2
0	ON	OFF
1	OFF	ON



Dimension(mm)

