

## 75-110GHz SPST Switch, WR-10



### Description:

AT-SPST-75110T1 is a MMIC Based SPST (Single pole Single throw) switch covering 75-110GHz. This module offers a low insertion loss of -3 dB with typical isolation of -20dBc.

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

More information, visit [www.atmicrowave.com](http://www.atmicrowave.com)

### Feature

- ✓ Frequency: 75-110GHz
- ✓ Low insertion Loss, -3 dB
- ✓ High isolation: -20dBc
- ✓ Very fast speed

### Application

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

### Electronical Specifications:

Parameter	Min	Typical	Max
Frequency(Note1)		75-110GHz	
Insertion Loss		-3.0dB	-4.5dB
Isolation	-20dB	-25 dB	
Power Supply		+5V	
Control Voltage		TTL	
P1dBm		+18dBm	
Power Consumption		0mW	
Temp Spec		25C	





# AT-SPST-75110T1

## 75-110GHz SPST 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	TBD
Size:	See outline

### Absolute Maximum Ratings Table

Parameter	Value
Control Voltage	+6V
RF Input Power	+20dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +145C

#### Notes:

- ✓ Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
- ✓ This data is only for reference, not for guaranteed specifications.
- ✓ Please contact AT Microwave team to make sure you have the most current data.
- ✓ Always pay attention to the temperature of the case, heatsink and fan are required if case temperature exceeds over 45C.

### Truth Table

TTL	RF1 to RFC
0V	OFF
+5V	ON

