

## E Band 70-90GHz, WR-12

### High Isolation, SPDT Switch with TTL Control



#### Description:

AT-SPDT-7090T2 is a SPDT (Single pole double throw) switch with TTL control covering 70-90GHz. This module offers a low insertion loss of -6 dB with typical isolation of -40dBc.

It also has good return loss from 70-90GHz band in both ON and OFF state. The input and output connectors are WR-12. Other connectors can be provided according to request.

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

#### Feature

- ✓ Frequency: 70-90GHz
- ✓ 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		70-90GHz	
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-7090T2

## 70-90GHz SPDT Switch

### Mechanical Information

Item	Description
RFC Input Port	WR-12 with UG-387/U anti-cocking Flange.
RF Output Port	WR-12 with UG-387/U 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	<b>ON</b>	OFF
1	OFF	<b>ON</b>



## Dimension(mm)

