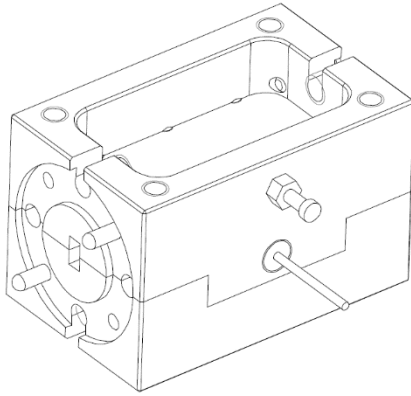


### 60-90GHz Attenuator/SPST

### Attenuation Range: 0-35dB, WR-12



#### Description:

AT-VVA-6090G-35 is a MMIC Based VVA (Single pole Single throw) switch covering 60-90GHz. It also can be used as an voltage controlled attenuator. This module offers a low insertion loss of -5 dB with typical isolation of -35dBc.

It also has good return loss from 60-90GHz band in both ON and OFF state. The input and output connectors are WR-12 Waveguide. Other connectors can be provided according to request.

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

#### Feature

- ✓ Frequency: 60-90GHz
- ✓ Low insertion Loss, -6 dB
- ✓ Attenuation Range: -35dB
- ✓ Very fast speed

#### Application

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

#### Electronical Specifications:

Parameter	Min	Typical	Max
Frequency		60-90GHz	
Insertion Loss		-6dB	-8dB
Attenuation Range	-35dB	-40 dB	
Isolation (SPST)	35dBc	40dBc	
Control Voltage		-1.2 to 0 V	
Power Consumption		0mW	
Input Return Loss		-10dB	
Input Return Loss		-10dB	
Spec Temp		25C	





# AT-VVA-6090G-35

## 60-90GHz Voltage Variable Attenuator

### Mechanical Information

Item	Description
Input Port	WR-12
Output Port	WR-12
Case Material	Copper
Finish	Gold Plated
Weight	100g
Size:	See outline

### Absolute Maximum Ratings Table

Parameter	Value
Control Voltage	-2 to 0.7V
RF Input Power	+15dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

### SPST Truth Table

VT	RFC to RF1
-1.2V	ON
0	OFF

### 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.

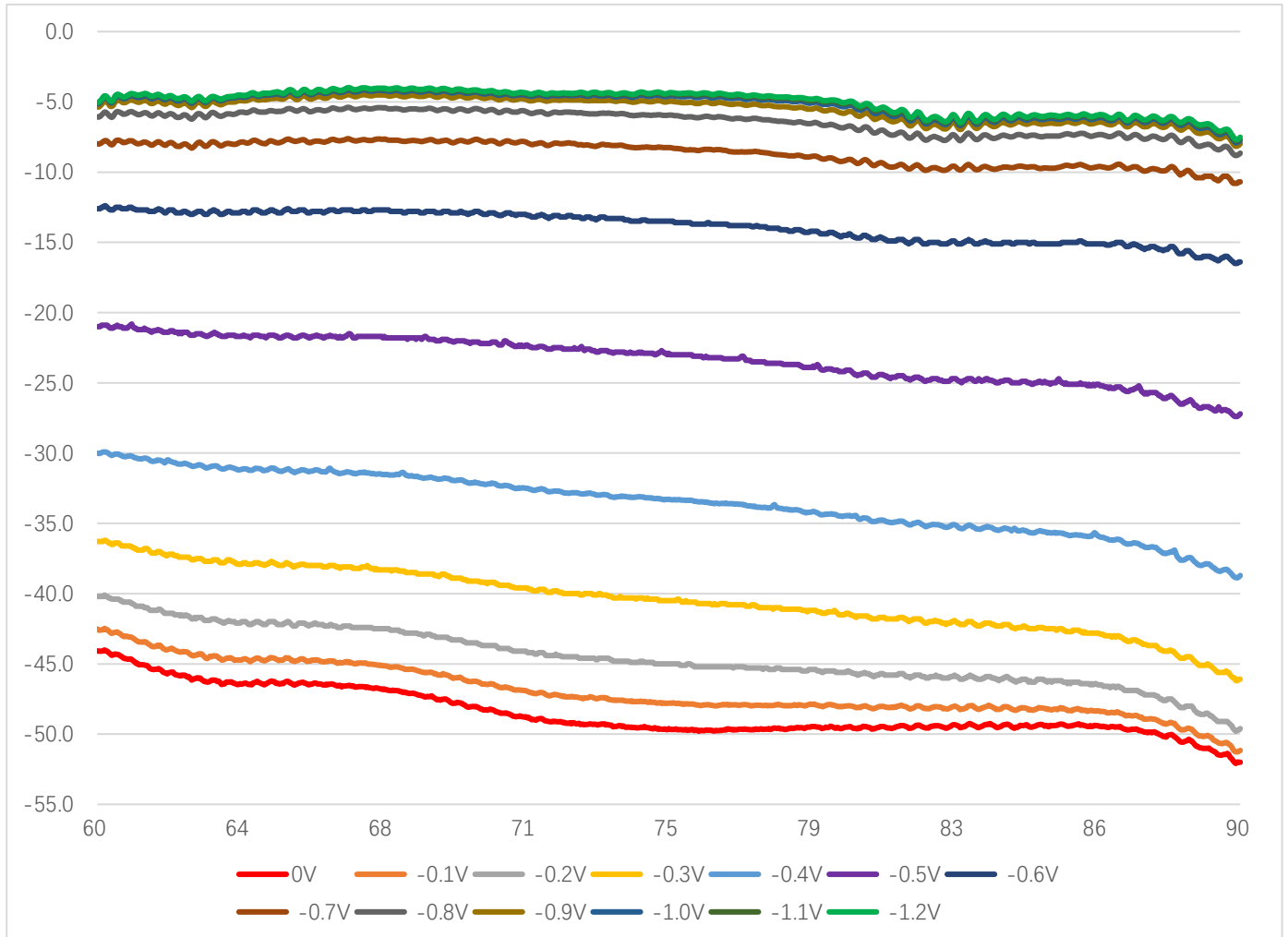




# AT-VVA-6090G-35

60-90GHz Voltage Variable Attenuator

## Test Data:



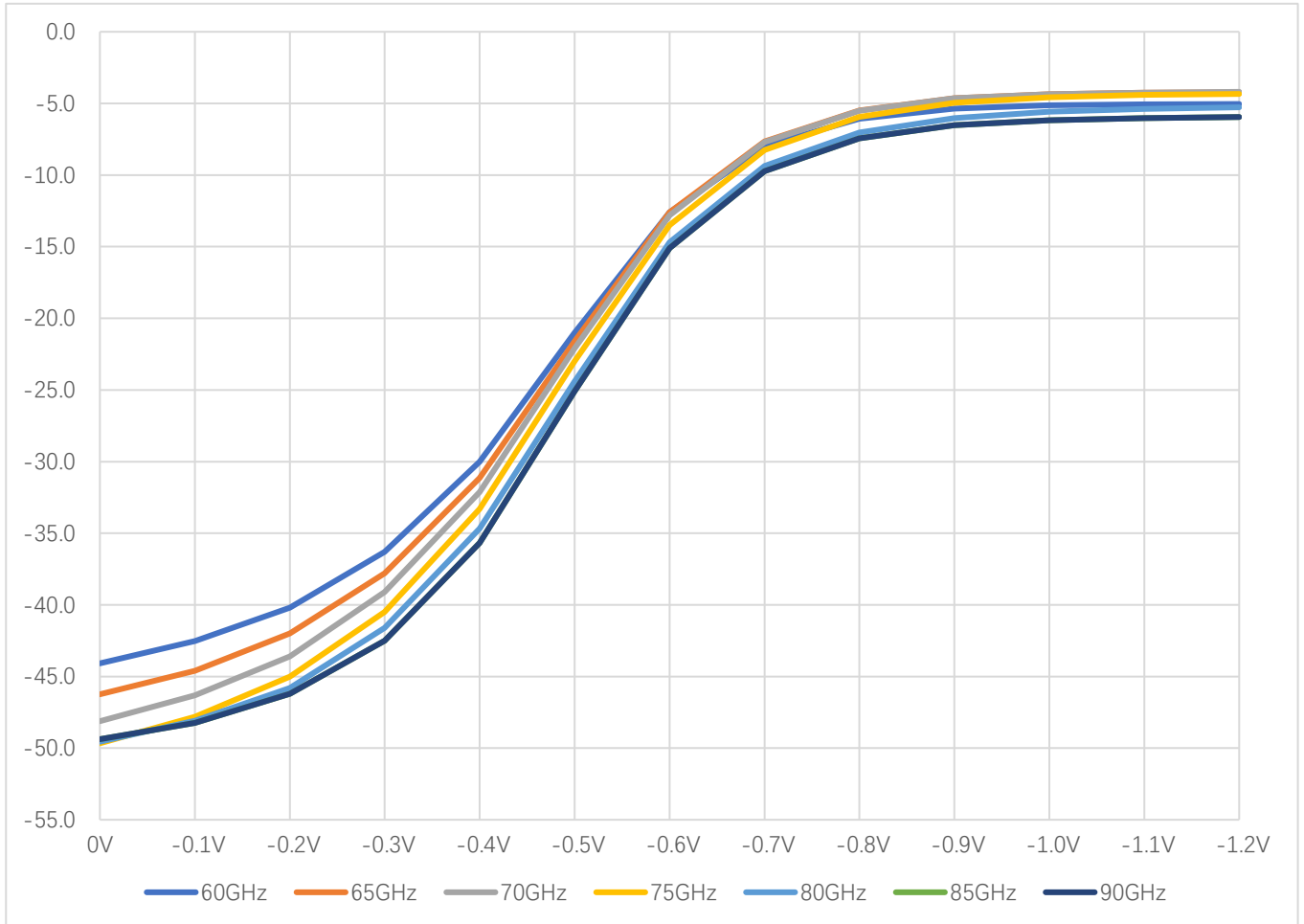
Attenuation Range vs Frequency





# AT-VVA-6090G-35

## 60-90GHz Voltage Variable Attenuator



Attenuation vs Control Voltage



## Dimension (mm)

