

### 75-110GHz Voltage Attenuator

2021-5-30



#### Description:

AT-VVA-75110G-25 is a MMIC Based VVA (Single pole Single throw) switch covering 75-110GHz. It also can be used as an voltage controlled attenuator with 25dB Range. This module offers a low insertion loss of -4 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, please visit [www.atmicrowave.com](http://www.atmicrowave.com)

#### Feature

- ✓ Frequency: 75-110GHz
- ✓ Low insertion Loss, -4 dB
- ✓ Attenuation Range: 25dB
- ✓ 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    |      | -4dB        | -6  |
| Attenuation Range | 20dB | 25dB        |     |
| Control Voltage   |      | -1.2 to 0 V |     |
| Power Consumption |      | 0mW         |     |
| Input Return Loss |      | -10dB       |     |
| Input Return Loss |      | -10dB       |     |
| Spec Temp         |      | 25C         |     |





# AT-VVA-75110G-25

## 75-110GHz Voltage Variable Attenuator

### Mechanical Information

| Item          | Description |
|---------------|-------------|
| Input Port    | WR-10       |
| Output Port   | WR-10       |
| Case Material | Copper      |
| Finish        | Gold Plated |
| Weight        | 100g        |
| Size:         | See outline |

### Absolute Maximum Ratings Table

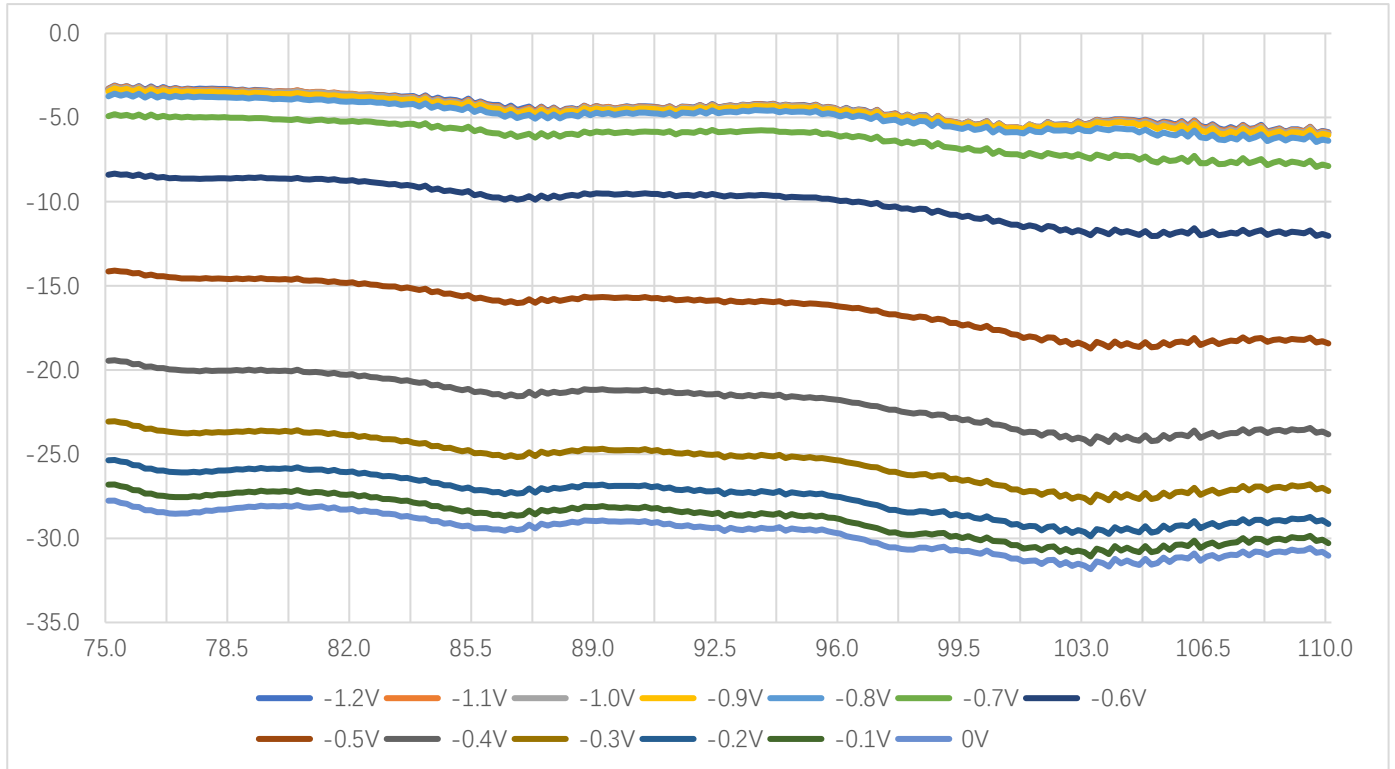
| Parameter             | Value        |
|-----------------------|--------------|
| Control Voltage       | -2 to 0.7V   |
| RF Input Power        | +15dBm       |
| Operating Temperature | 0 to +50C    |
| Storage Temperature   | -65 to +150C |

### Notes:

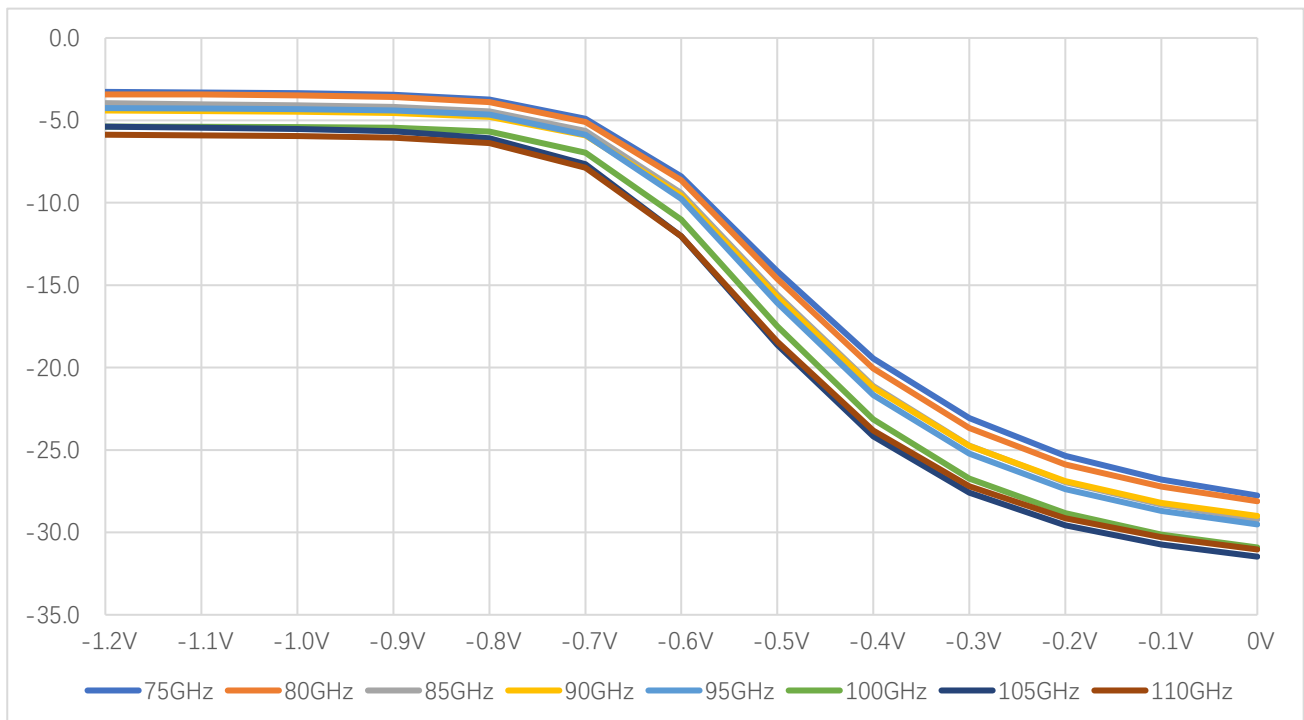
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.



### Test Data:



Attenuation vs Frequency at different Voltage



Attenuation vs Control Voltage at different Frequency



## Dimension (mm)

