

50-75GHz Attenuator



Description:

AT-VVA-5075-35 is a MMIC Based VVA covering 50-75GHz. It also can be used as an voltage controlled attenuator. This module offers a low insertion loss of -6 dB with typical isolation of -35dBc.

It also has good return loss from 50-75GHz band in both ON and OFF state. The input and output connectors are WR-15 Waveguide. Other connectors can be provided according to request.

More information, visit www.atmicrowave.com

Feature

- ✓ Frequency: 50-75GHz
- ✓ Low insertion Loss, -6 dB
- ✓ High isolation: -35dBc
- ✓ Very fast speed

Application

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

Electronical Specifications:

| Parameter | Min | Typical | Max |
|---------------------------------|-----|--------------|-----|
| Frequency(Note1) | | 50-75GHz | |
| Insertion Loss | | -6dB | -8 |
| Attenuation Range as attenuator | | -35 dBc | |
| Isolation as SPDT | | -35 dBc | |
| Control Voltage | | -1.2 and 0 V | |
| Power Consumption | | 0mW | |
| Input Return Loss | | -10dB | |
| Output Return Loss | | -10dB | |
| Spec Temp | | 25C | |





AT-VVA-5075-35

50-75GHz Voltage Variable Attenuator

Mechanical Information

| Item | Description |
|---------------------------|-------------|
| Input Port | WR-15 |
| Output Port | WR-15 |
| Case Material | Copper |
| Finish | Gold Plated |
| Weight (Without Heatsink) | 100g |
| Size: | TBD |

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 |

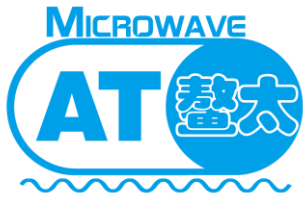
Truth Table

| 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.

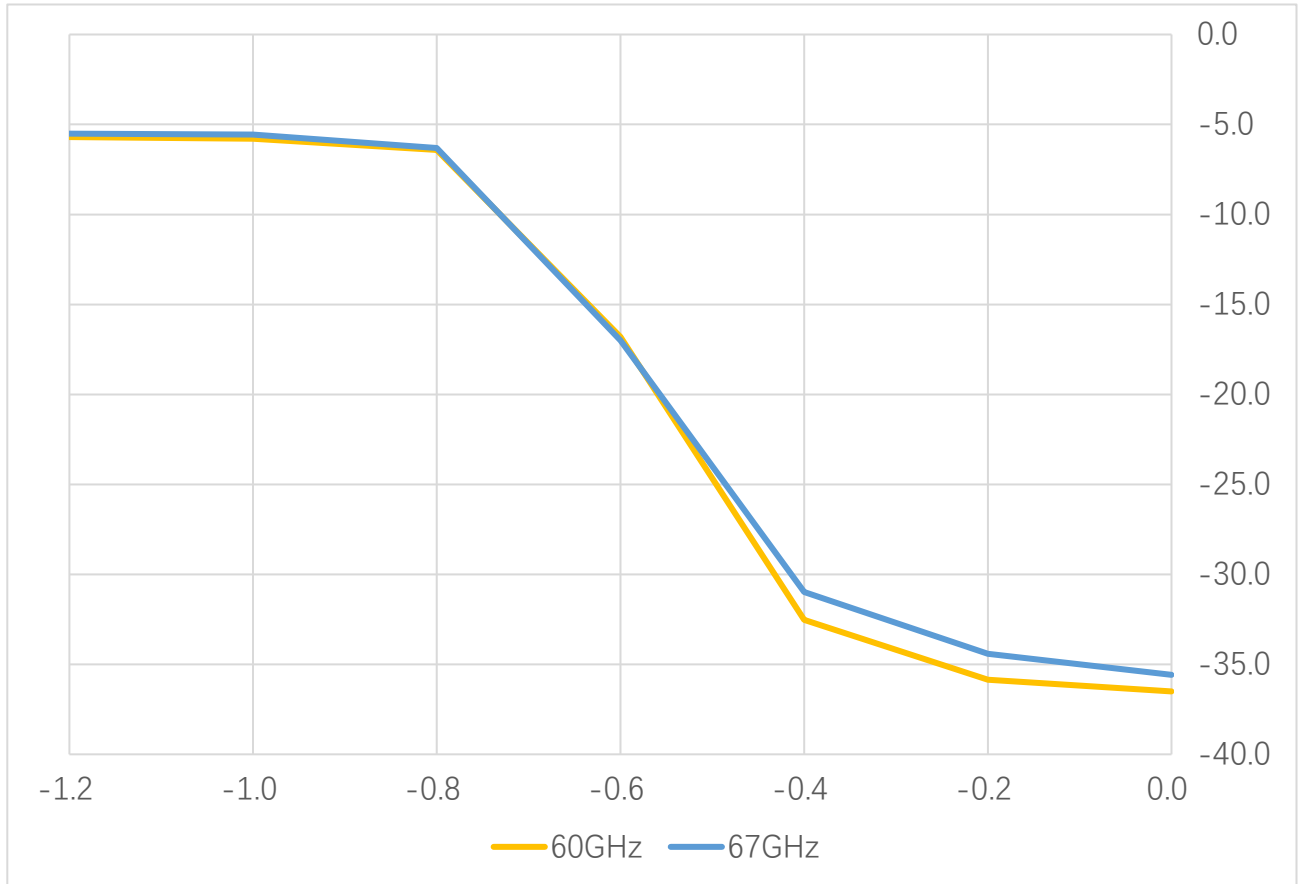




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Test Data:



Attenuation Range vs Frequency



Dimension (mm)

Following dimension is just for reference.

Contact with us for dimension when place order.

