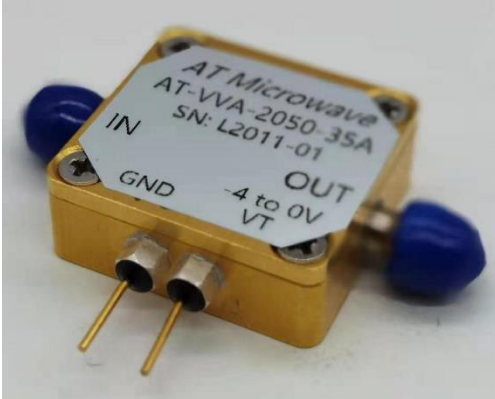


20-50GHz Voltage Variable Attenuator



Description:

AT-VVA-2050-35A is a MMIC Based attenuator covering 20-50GHz. It also can be used as a SPST switch. This module offers a low insertion loss of -5 dB with typical isolation of -35dBc.

It also has good return loss from 20-50GHz band in both ON and OFF state. The input and output connectors are 2.4mm Female. Other connectors can be provided according to request.

More information, visit www.atmicrowave.com

Feature

- ✓ Frequency: 20-50GHz
- ✓ Low insertion Loss, -5 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 Range		20-50GHz	
Insertion Loss		-5dB	-7
Attenuation Range		35 dB	
Control Voltage	-4V		0V
Current		5mA	
Input Return Loss		-10dB	
Output Return Loss		-10dB	
Spec Temp		25C	





AT-VVA-2050-35A

20-50GHz Voltage Variable Attenuator

Mechanical Information

Item	Description
Input Port	2.4mm Female
Output Port	2.4mm Female
Case Material	Copper
Finish	Nickel Plated
Weight (Without Heatsink)	80g
Size:	27.9x26x12.3 mm

Absolute Maximum Ratings Table

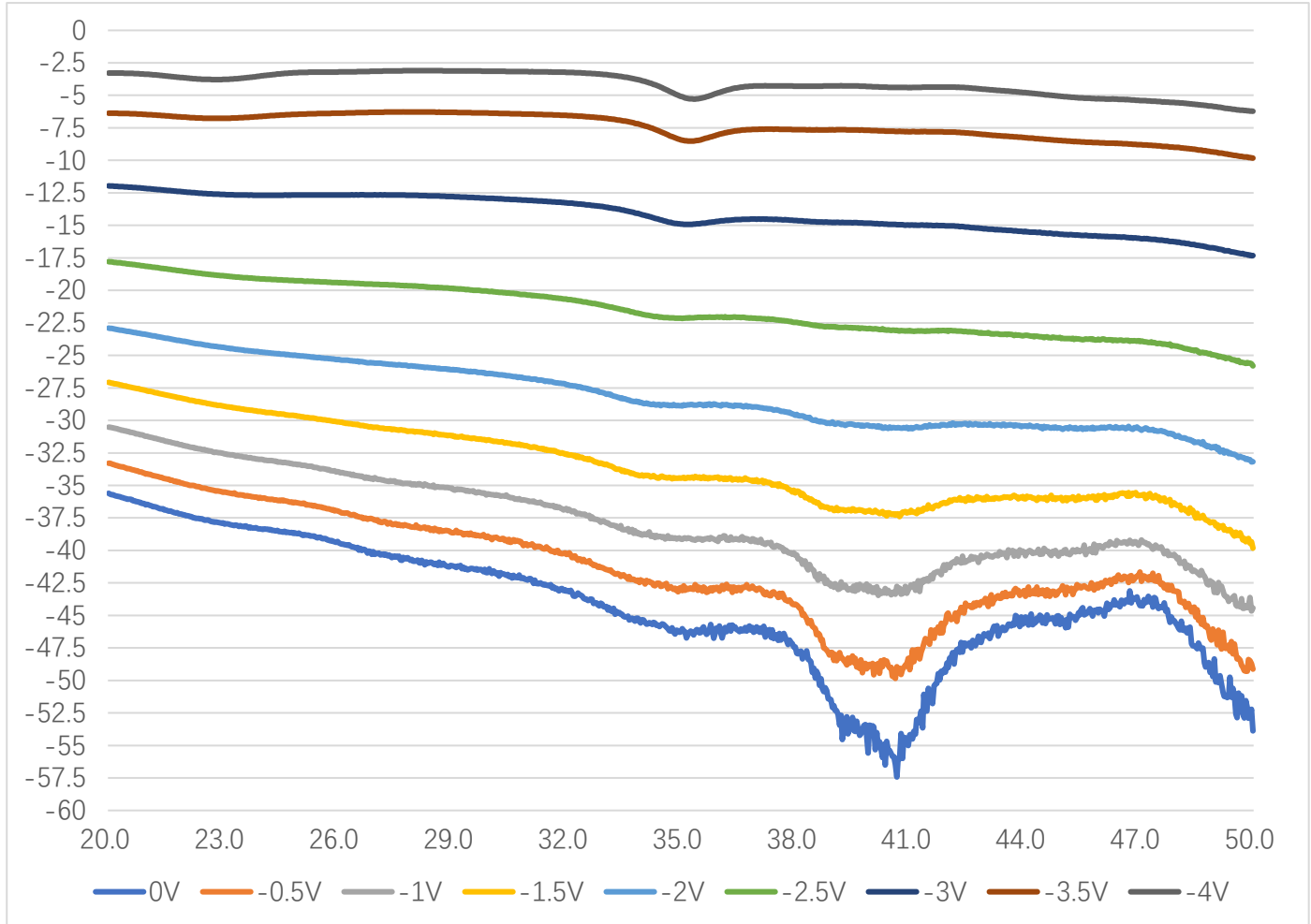
Parameter	Value
Control Voltage	-6 to 0.3V
RF Input Power	+30dBm
Operating Temperature	-40 to +85C
Storage Temperature	-65 to +150C

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.

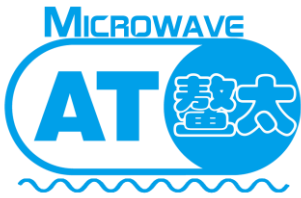


Test Data



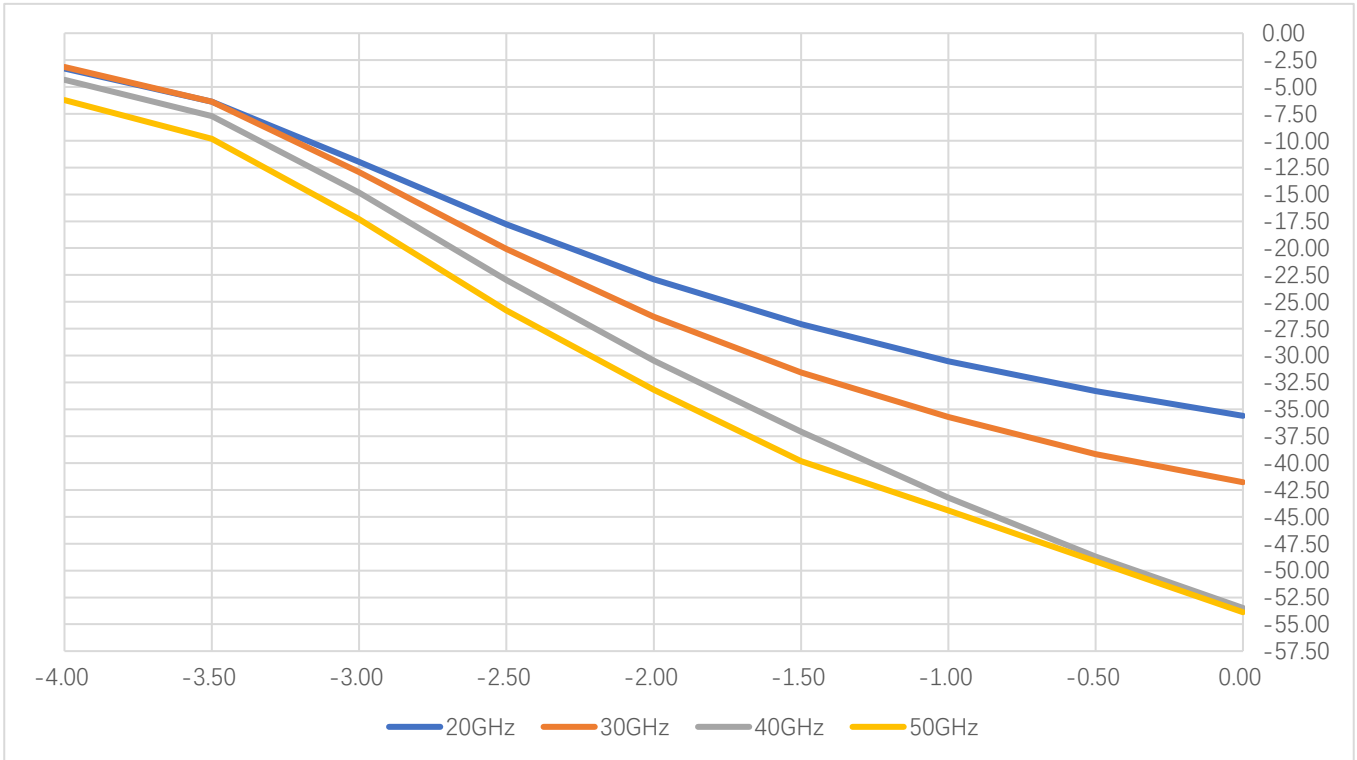
Attenuation vs Voltage Control



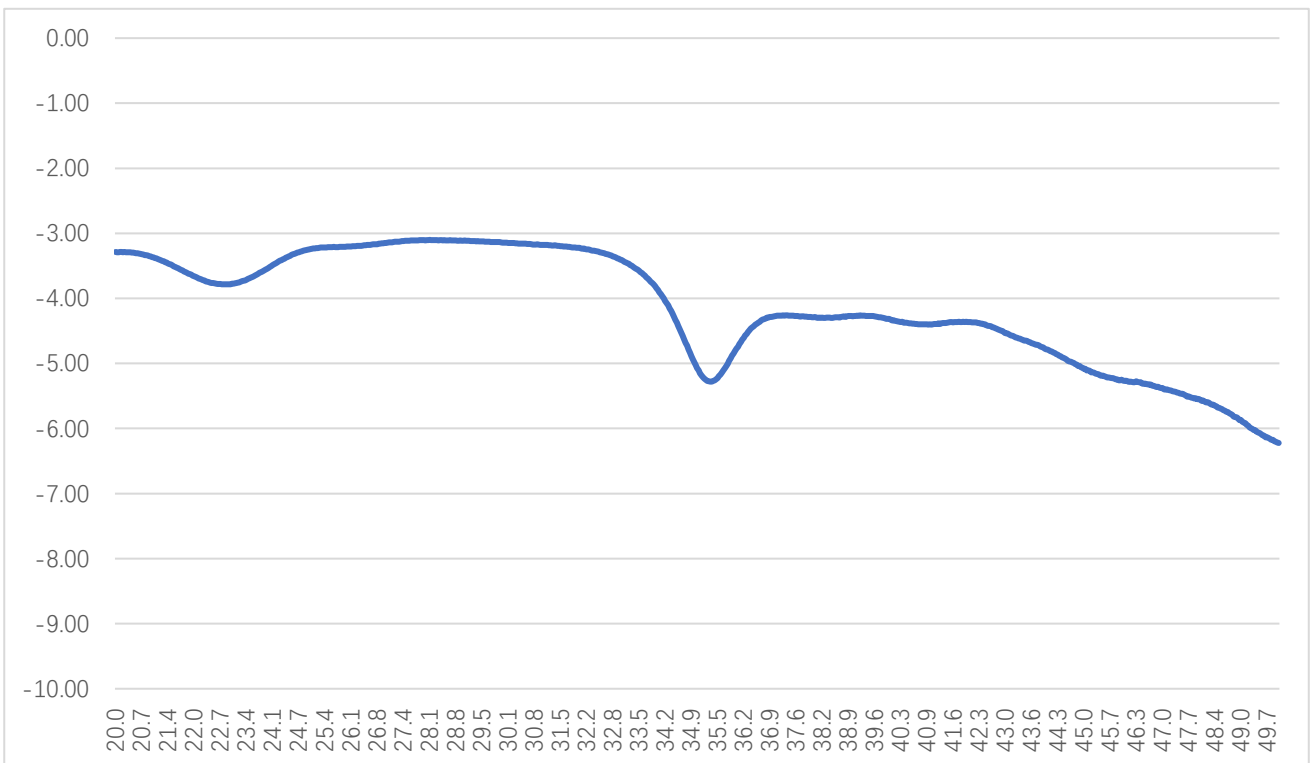


AT-VVA-2050-35A

20-50GHz Voltage Variable Attenuator

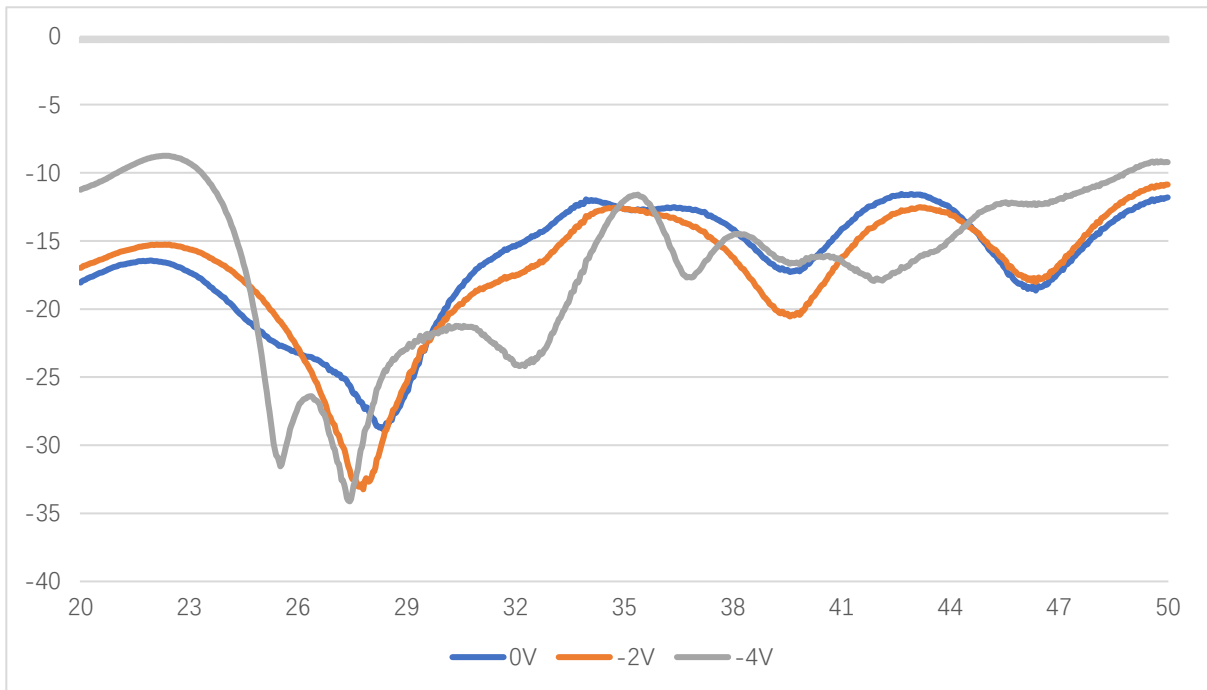


Attenuation vs Voltage at 20/30/40GHz

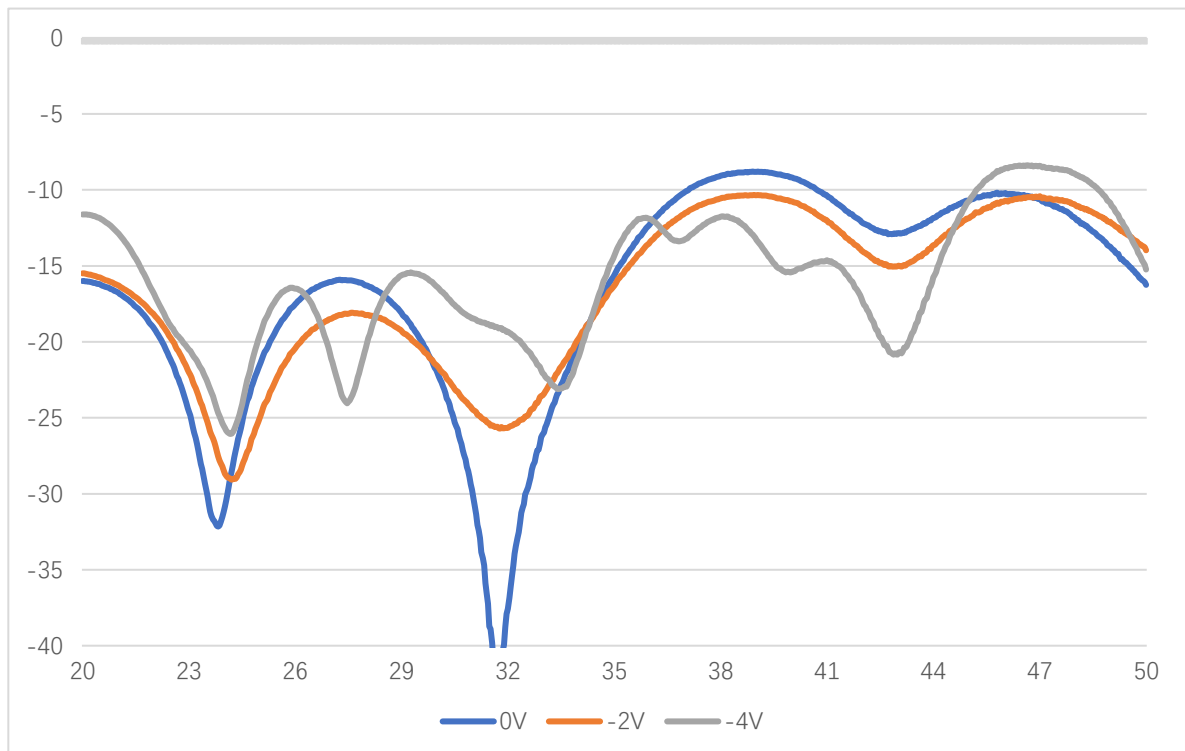


Insertion Loss vs Minimum Attenuation at V=-4V



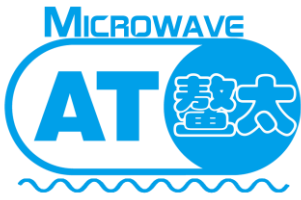


S11 Return Loss at 0/-2/-4V Control Voltage



S22 Return Loss at 0/-2/-4V Control Voltage





AT-VVA-2050-35A

20-50GHz Voltage Variable Attenuator

Dimension (mm)

