

20-50GHz Voltage Variable Attenuator

Range 0-35dB ,2.4mm



Description:

AT-VVS-2050A-35 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 attenuation range of 35dB.

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

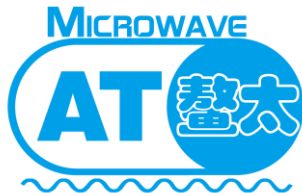
Application

- ✓ 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-2050A-35

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Mechanical Information

Item	Description
Input Port	2.4mm Female
Output Port	2.4mm Female
Case Material	Copper
Finish	Gold Plated
Weight	80g
Size:	See outline

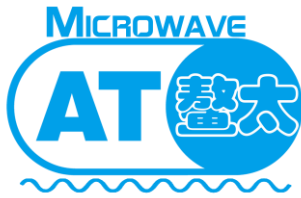
Absolute Maximum Ratings Table

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.

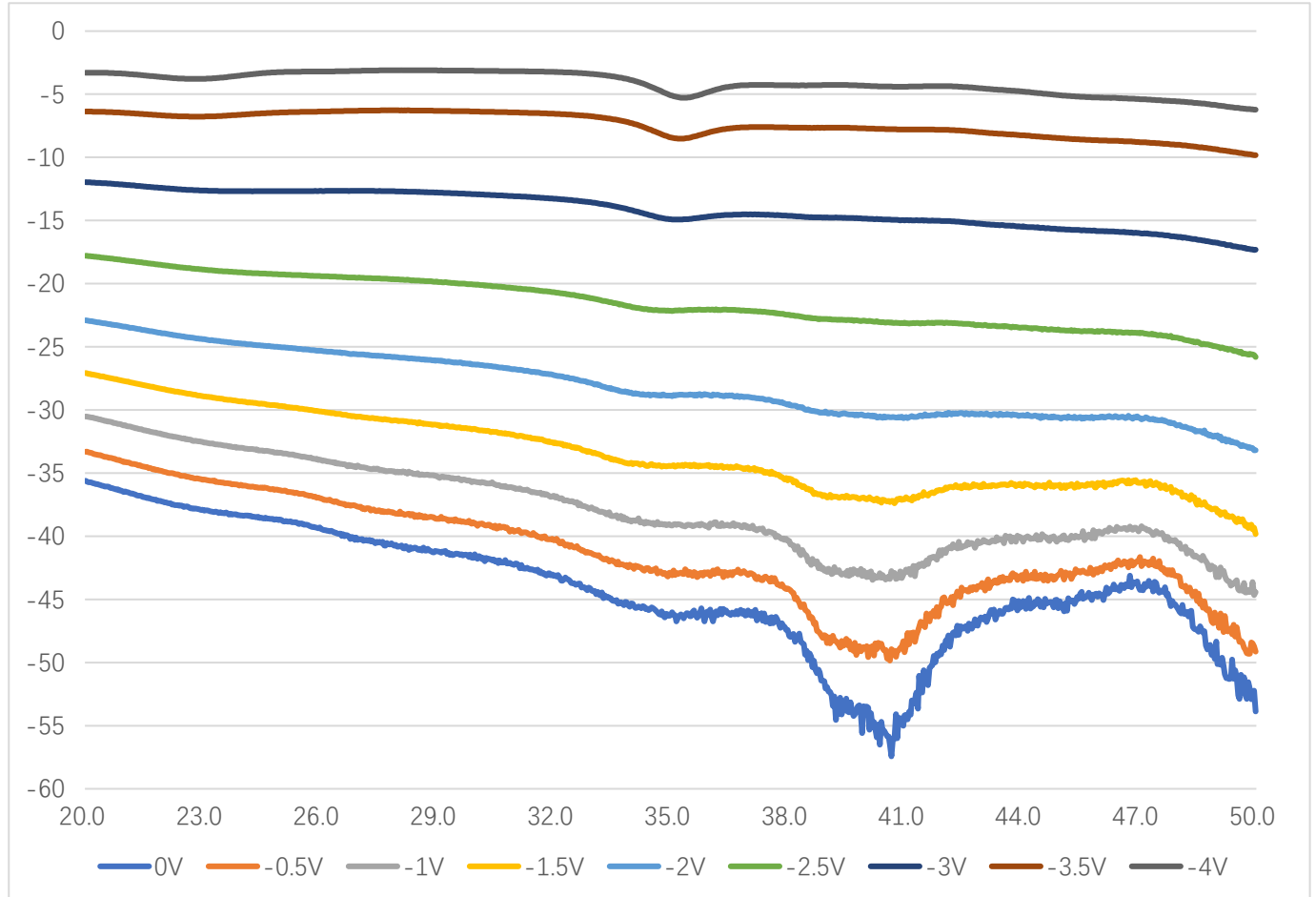




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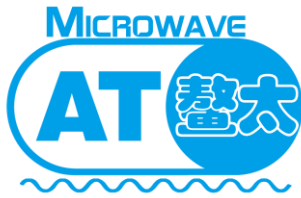
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Test Data



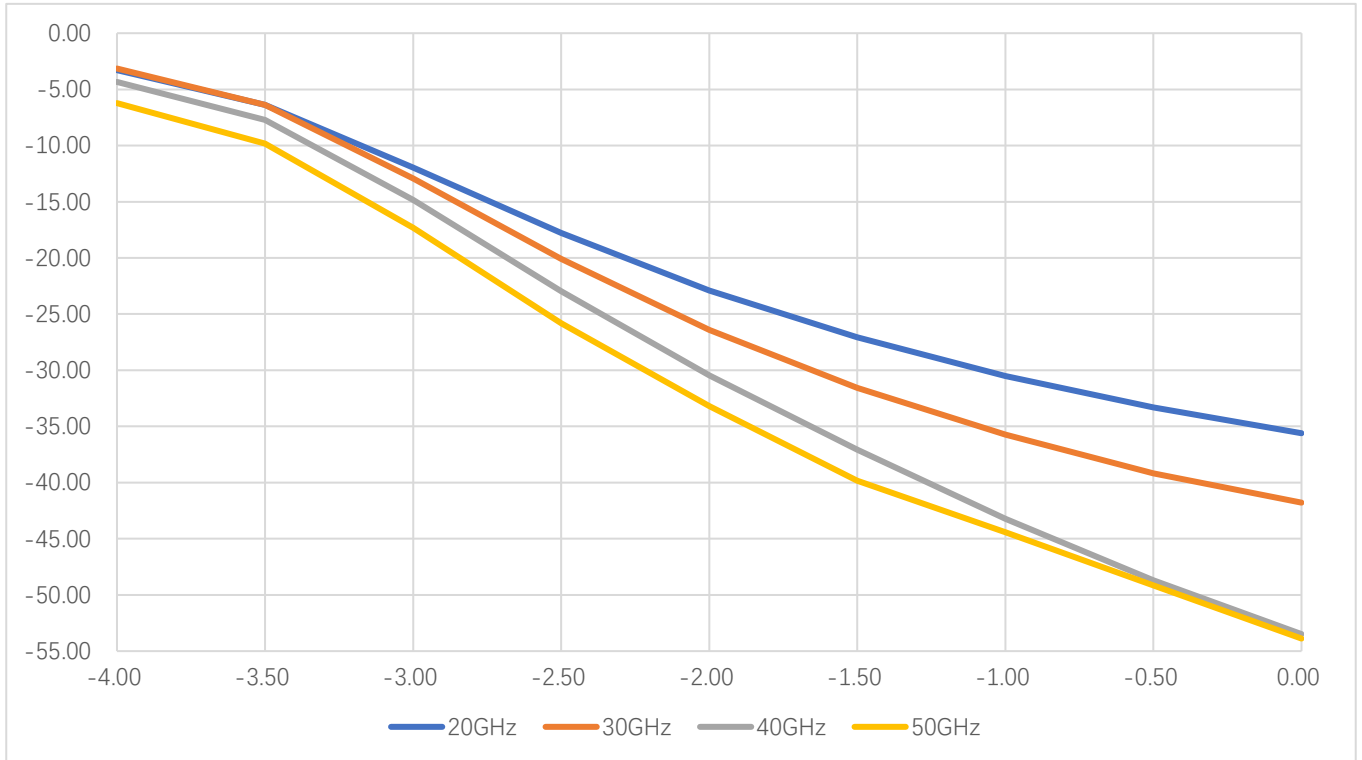
Attenuation vs Voltage Control



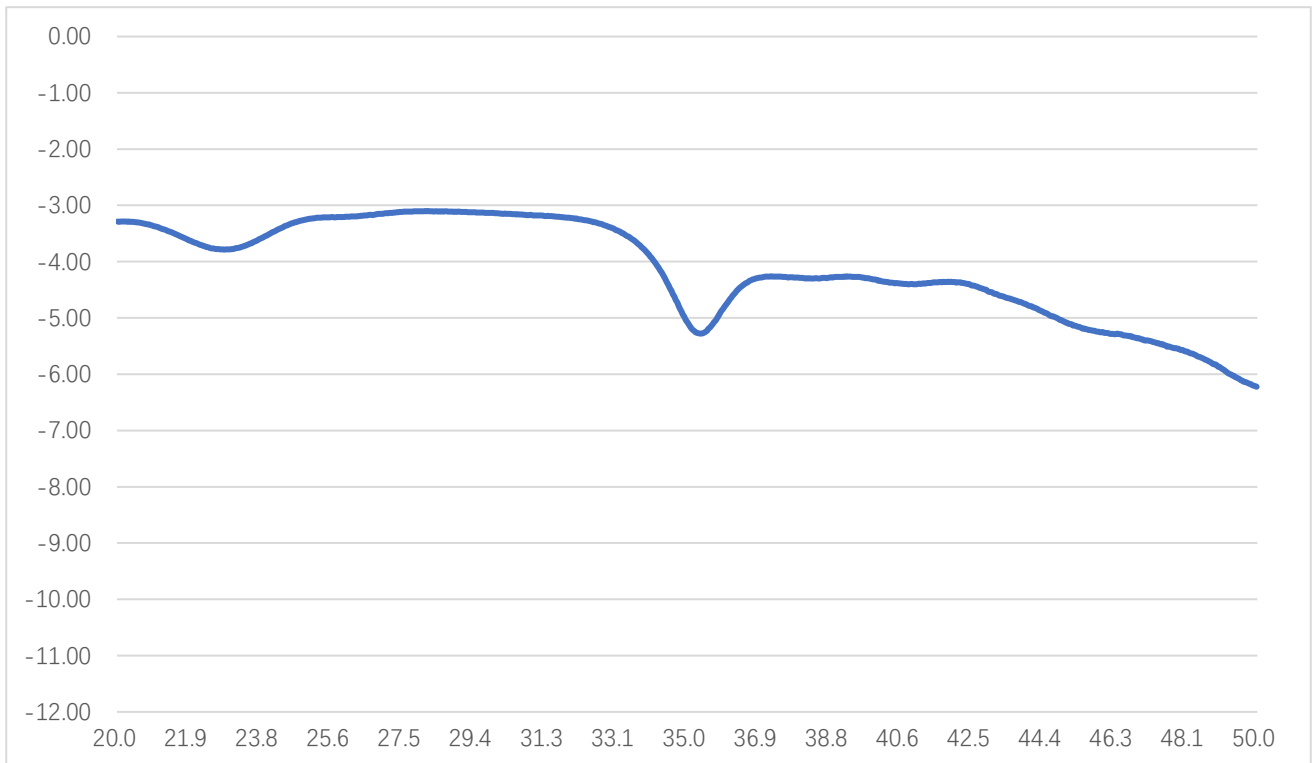


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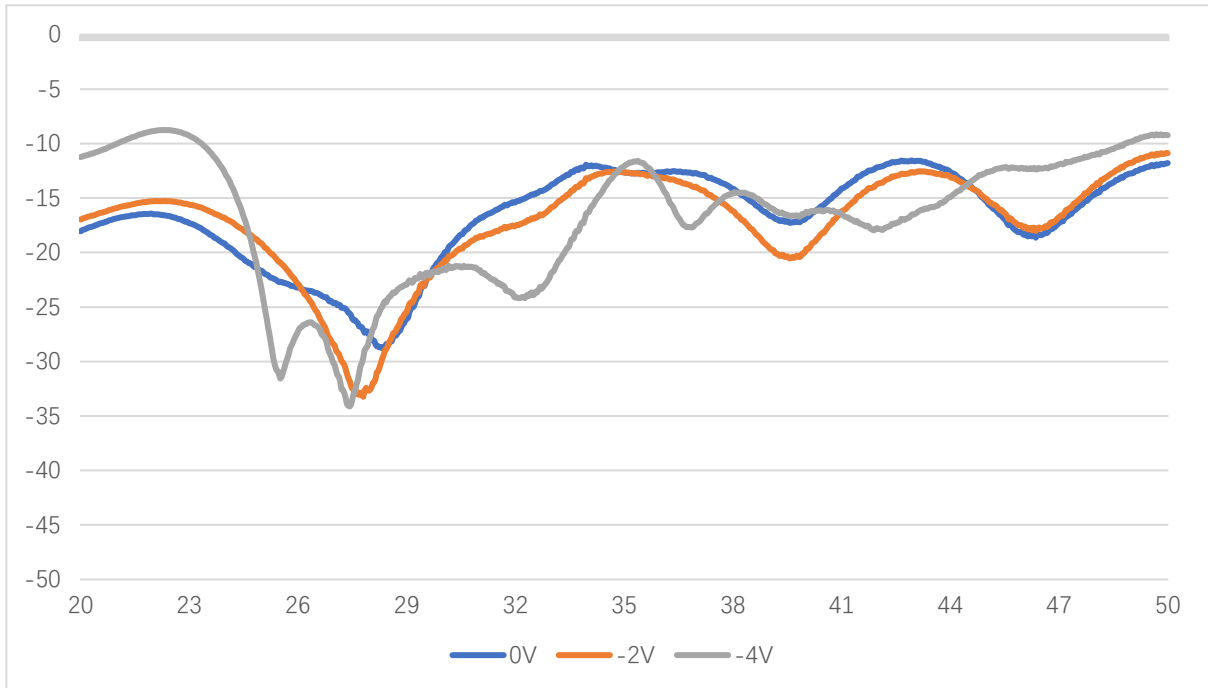


Attenuation vs Voltage at 20/30/40GHz

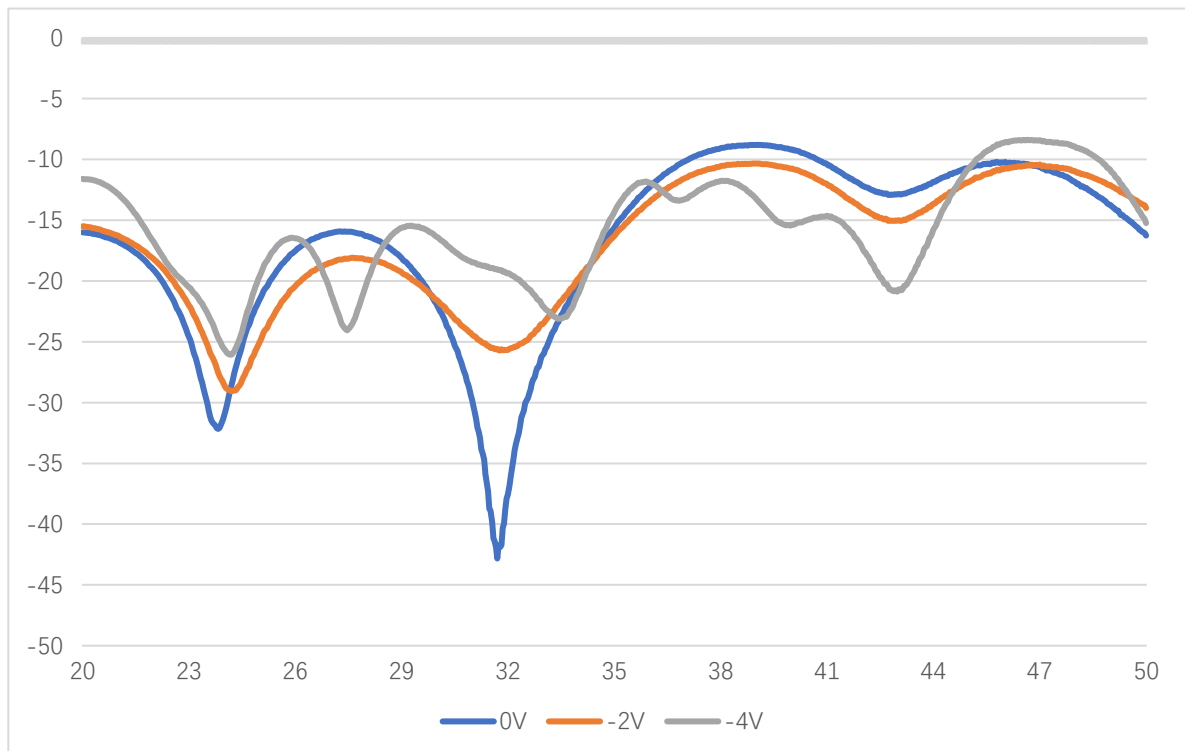


Insertion Loss vs Minimum Attenuation at V=-4V





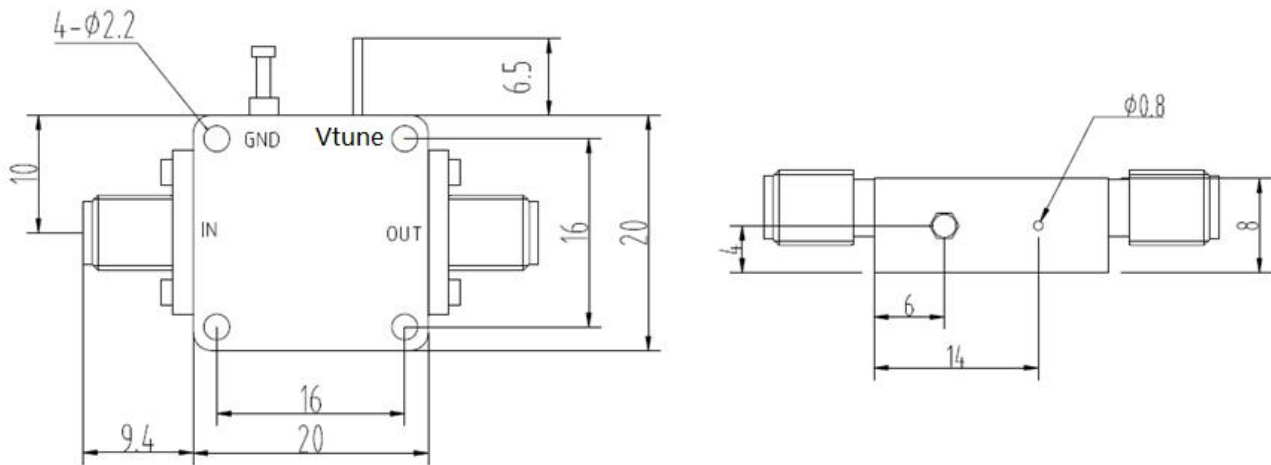
S11 Return Loss at 0/-2/-4V Control Voltage



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



Dimension (mm)



	<26.5GHz	<40GHz	<50GHz	<67GHz
Connector	SMA	2.92mm	2.4mm	1.85mm
Lenth of a	9.4mm	9.5mm	10.8mm	11.3mm

Note: Female Default. Contact with us for other types.

