40-67GHz SPST and Attenuator

Description:

AT-SPST-4067-20 is a MMIC Based SPST (Single pole Single throw) switch covering 40-67GHz. It also can be used as an voltage controlled attenuator. This module offers a low insertion loss of -4 dB with typical isolation of -20dBc.

It also has good return loss from 40-67GHz band in both ON and OFF state. The input and output connectors are 1.85mm Female. Other connectors can be provided according to request.

More information. visit www.atmicrowave.com

Feature

- ✓ Frequency: 40-67GHz
- ✓ Low insertion Loss, -4 dB
- ✓ High isolation: -25dBc
- ✓ Very fast speed

Application

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

Electronical Specifications:

Parameter	Min	Typical	Max
Frequency(Note1)	30GHz	40-60	67GHz
Insertion Loss		-4dB	-5
Isolation		-20 dBc	
Control Voltage		-1.2 and 0 V	
Power Consumption		0mW	
RF Port		1.85mm Female	
Bias Port		Feed Through Pin	
Dimension		27.9x26x10mm	

Absolute Maximum Ratings Table

Parameter	Value
Control Voltage	-2 to 0.7V
RF Input Power	+15dBm
Operating Temperature	-40 to +85C
Storage Temperature	-65 to +150C

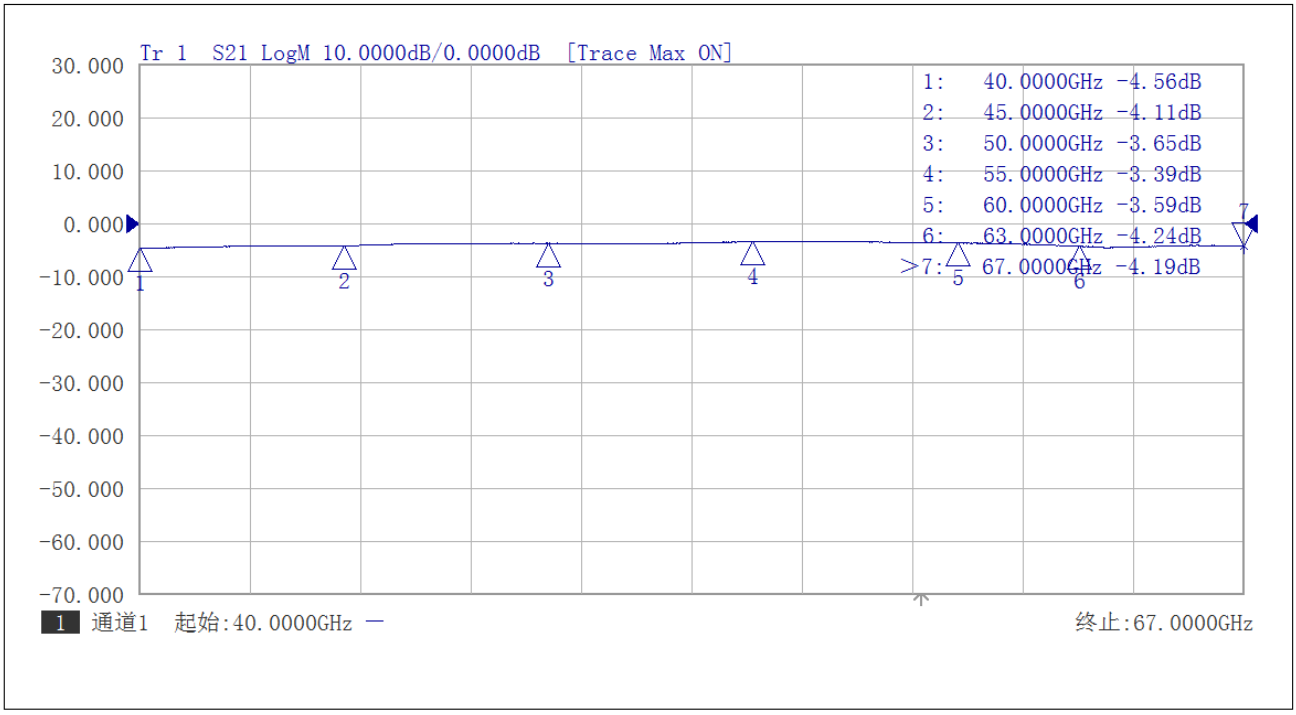
Truth Table

VT	RFC to RF1
-1.2V	ON
0	OFF

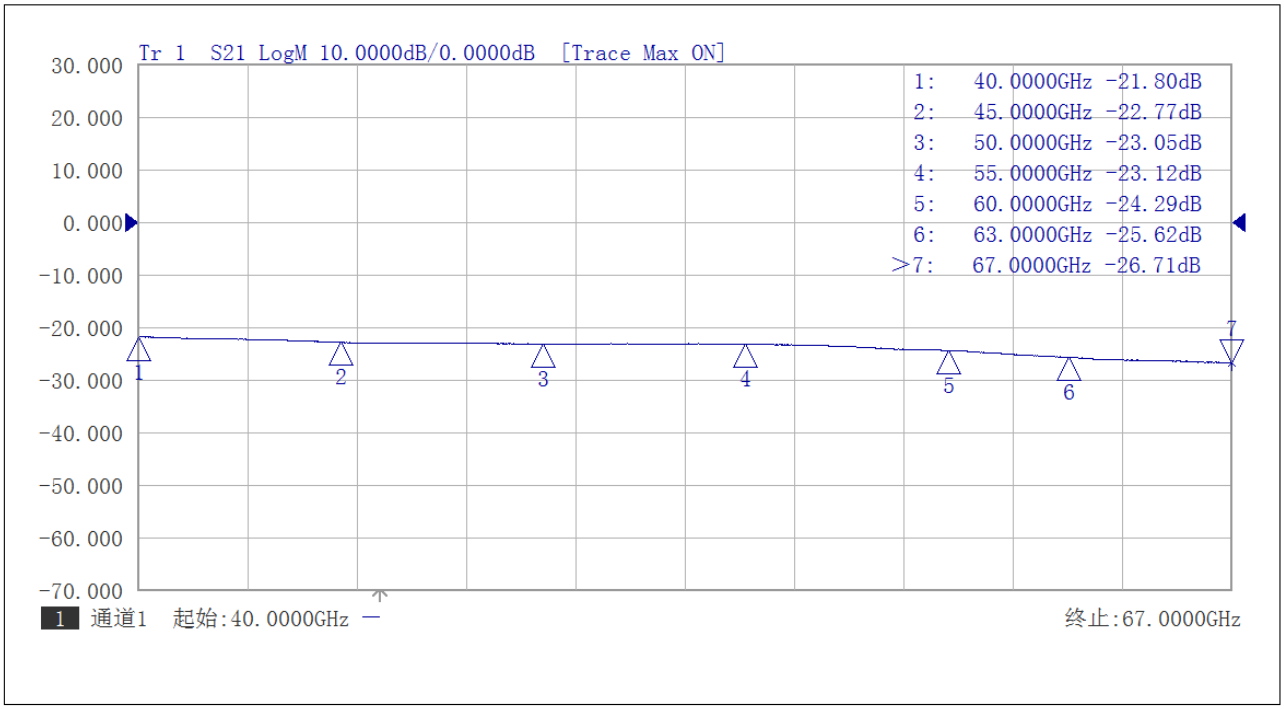
Notes:

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.

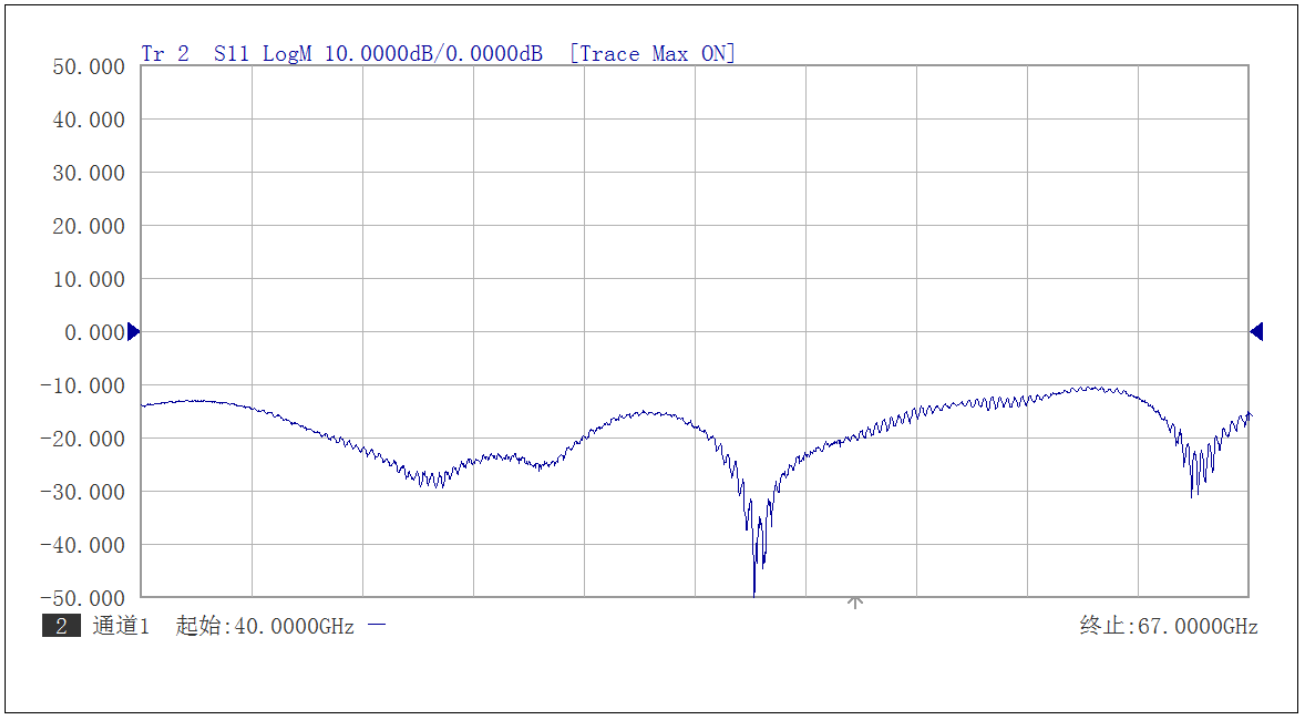
Test Data (25C)



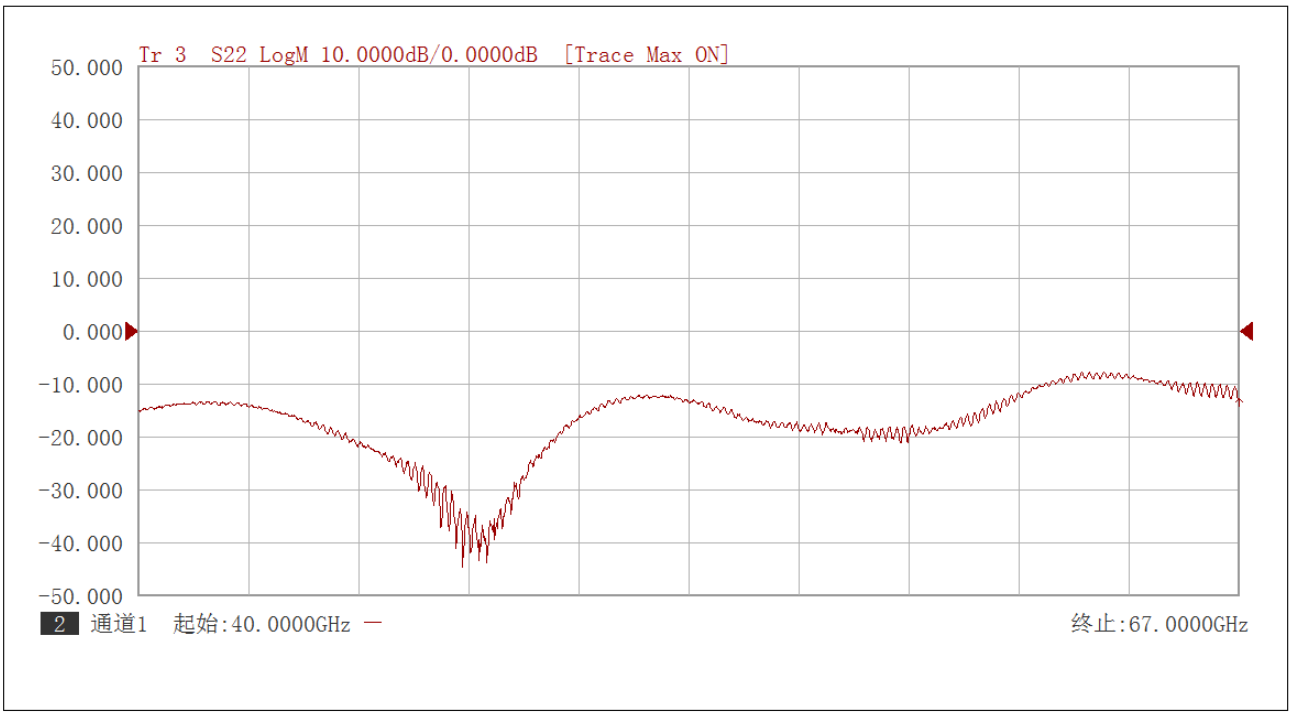
Insertion Loss vs Frequency



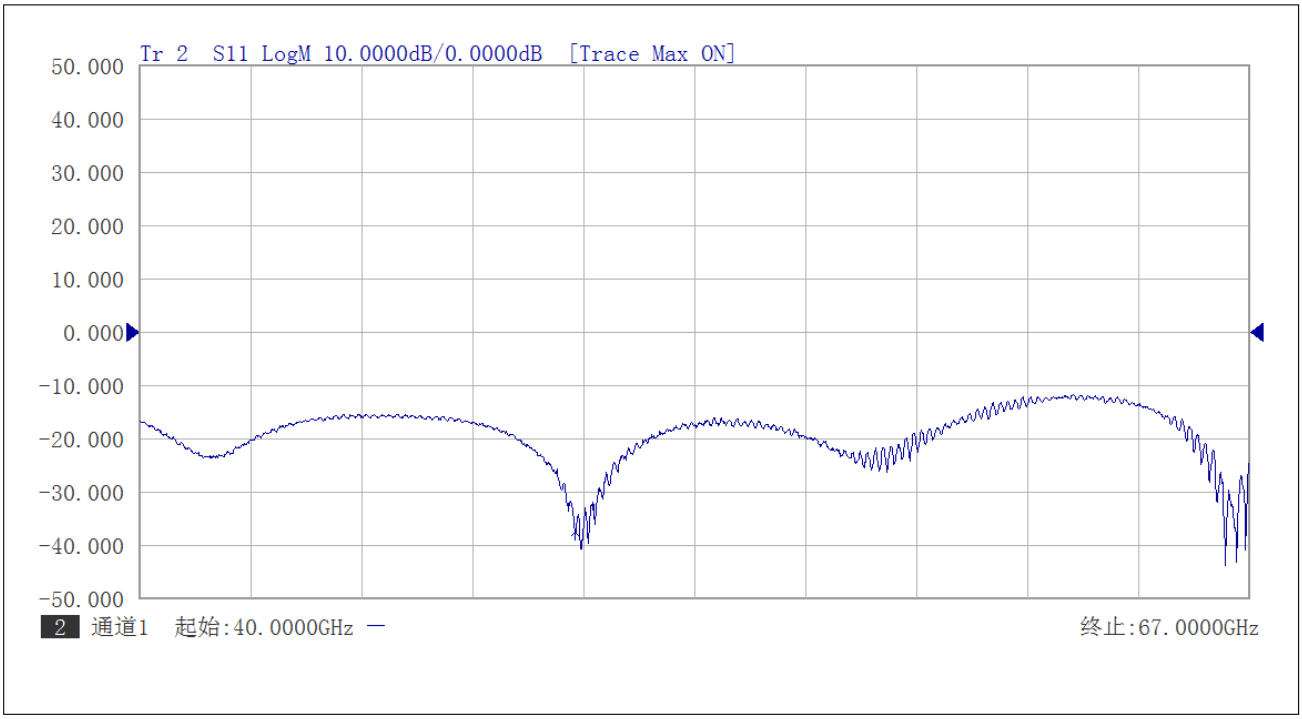
Isolation vs Frequency



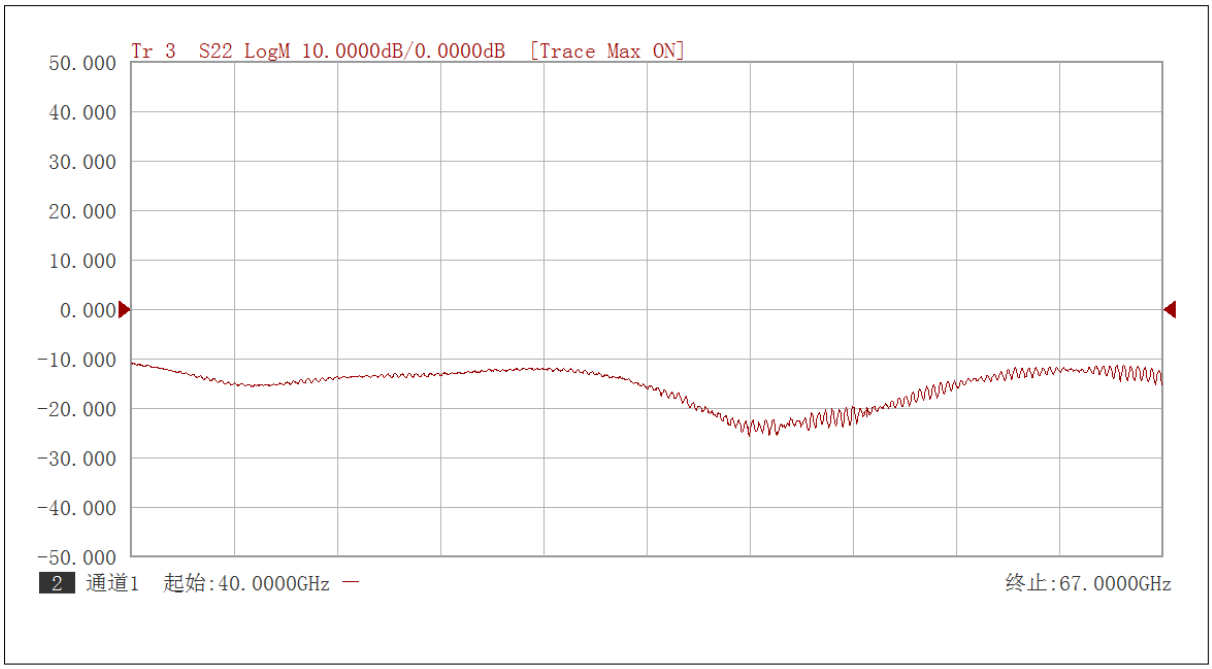
S11 SPST ON



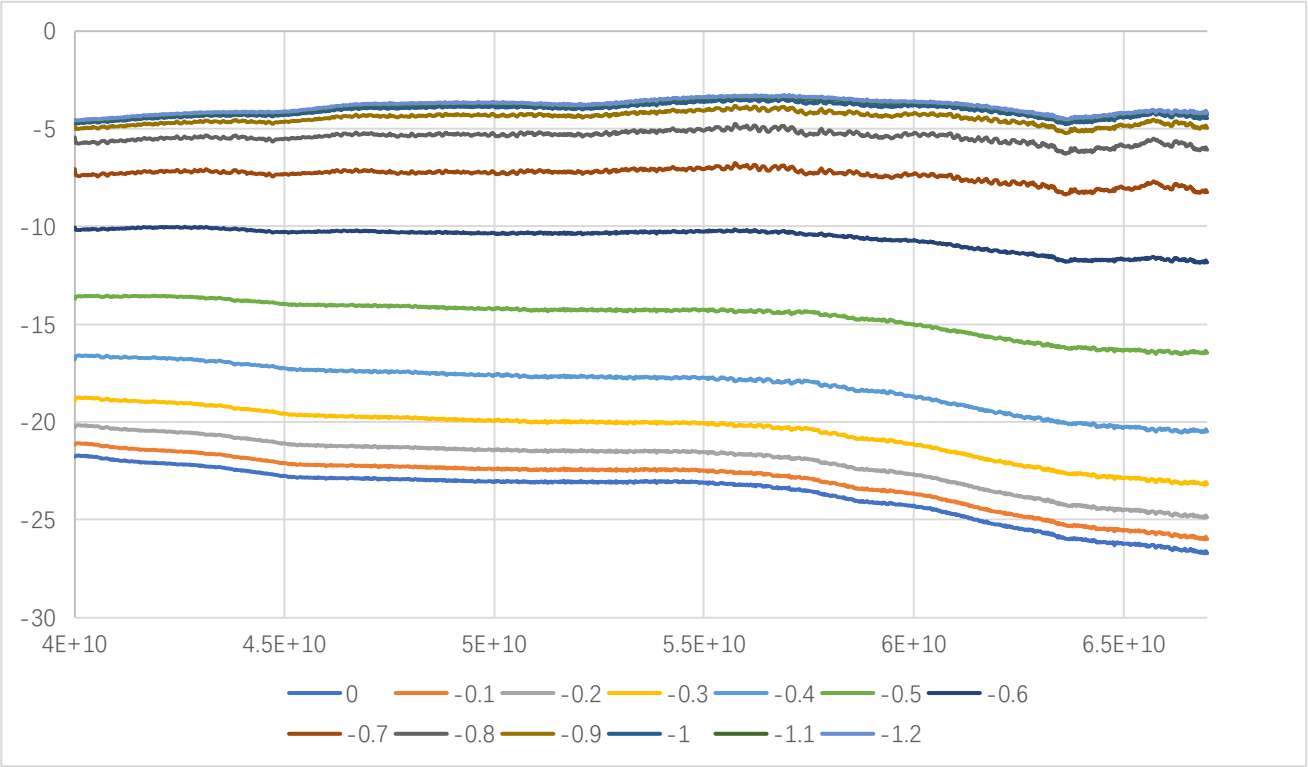
S22 SPST ON



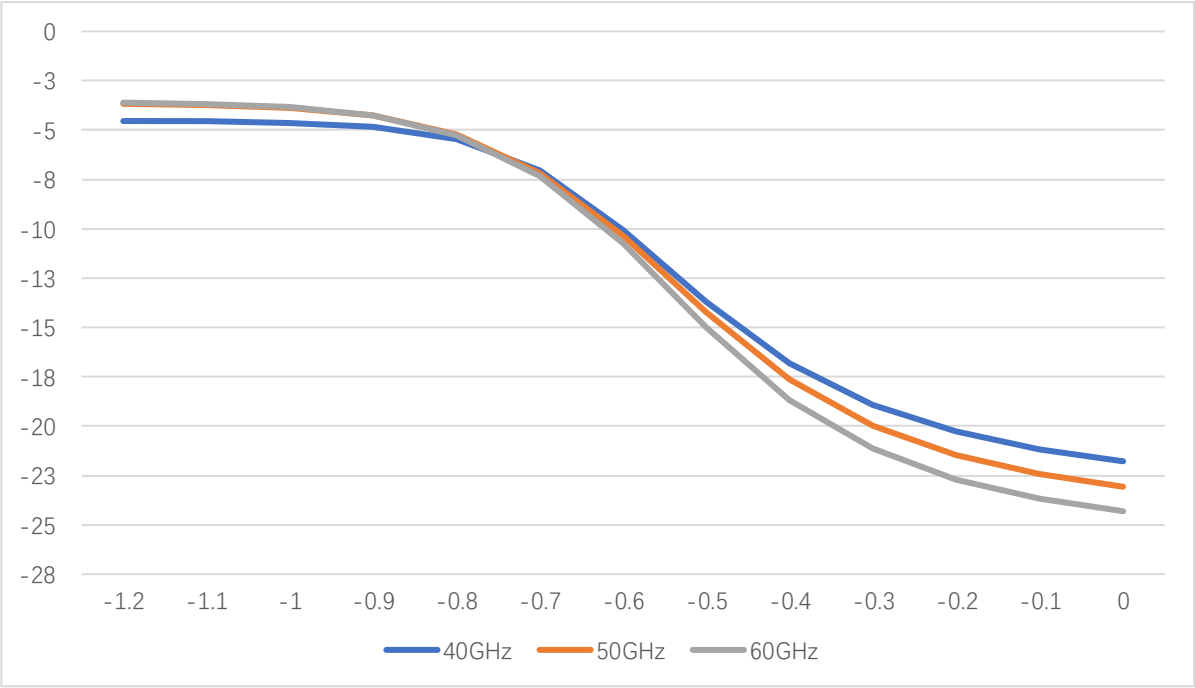
S11 SPST OFF



S22 SPST ON



Attenuation Vs Control Voltage



Attenuation vs Voltage by 40/50/60GHz

Dimension (mm)