

40-67GHz SPST and Attenuator



Description:

AT-SPST-4067-35 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 -6 dB with typical isolation of -35dBc.

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, -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) | | 40-60 | 67GHz |
| Insertion Loss | | -6dB | -8 |
| Isolation | | -35 dBc | |
| Control Voltage | | -1.2 and 0 V | |
| Power Consumption | | 0mW | |
| RF Port | | 1.85mm Female | |
| Bias Port | | Feed Through Pin | |
| Dimension | | 27.9x26x10mm | |
| Spec Temp | | 25C | |





AT-SPST-4067-35

40-67GHz SPST Switch

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

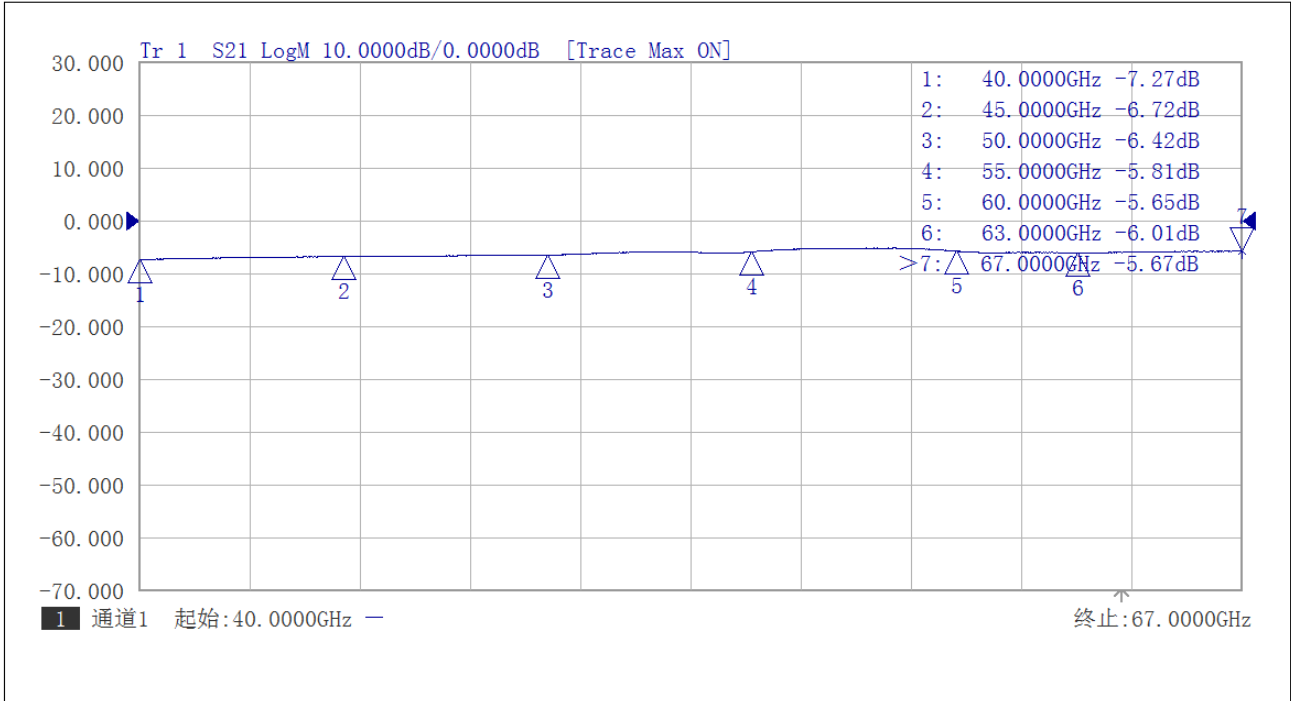
| VT | RF1 to RF2 |
|-------|------------|
| -1.2V | ON |
| 0 | OFF |

Notes:

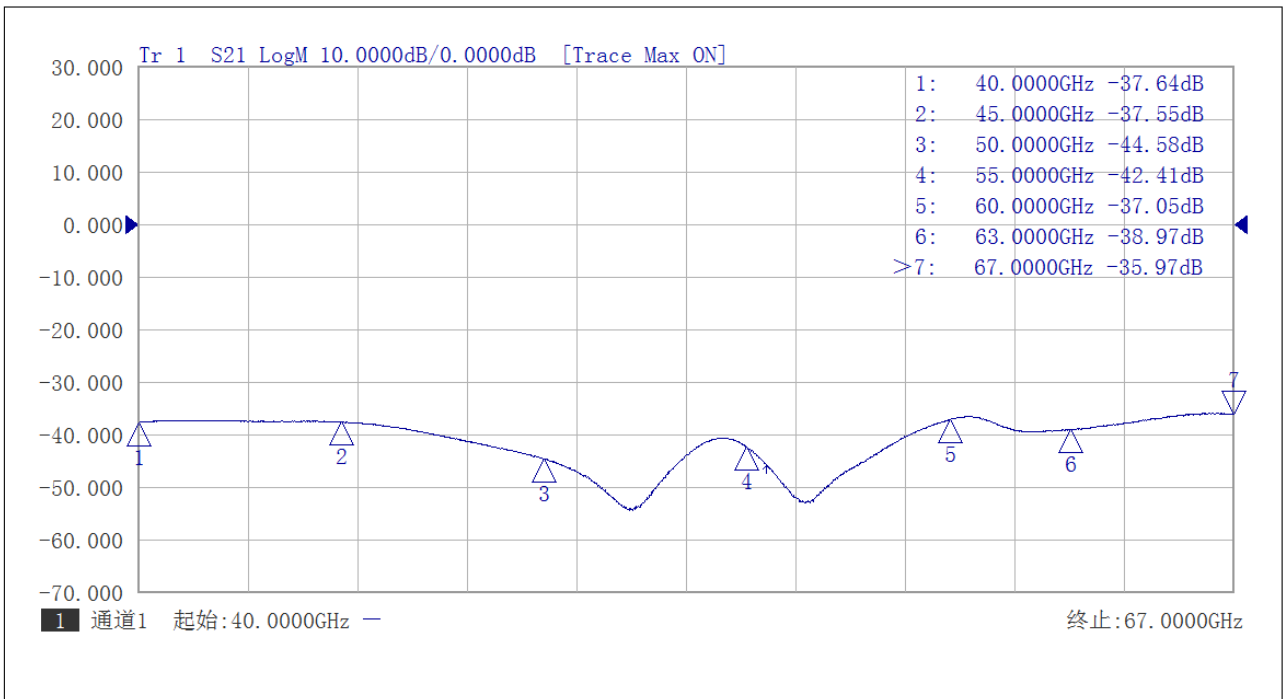
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.



Test Data(25C)

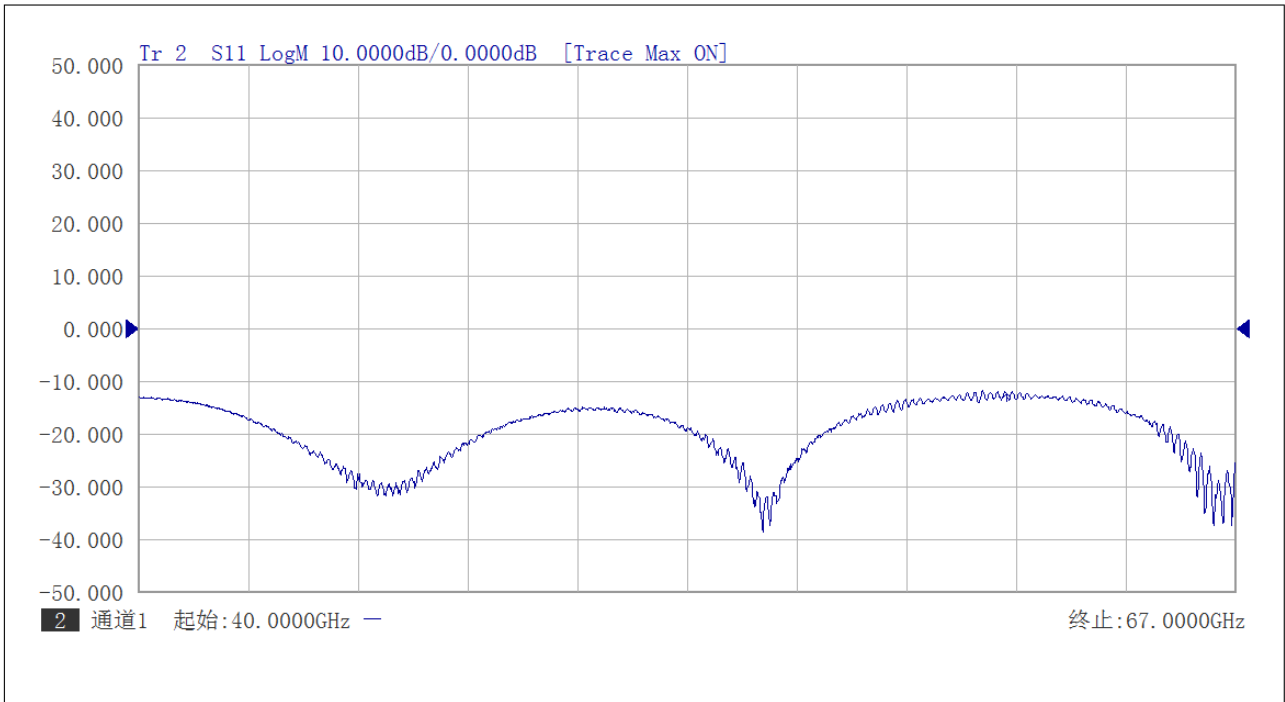


S21 insertion loss vs Frequency

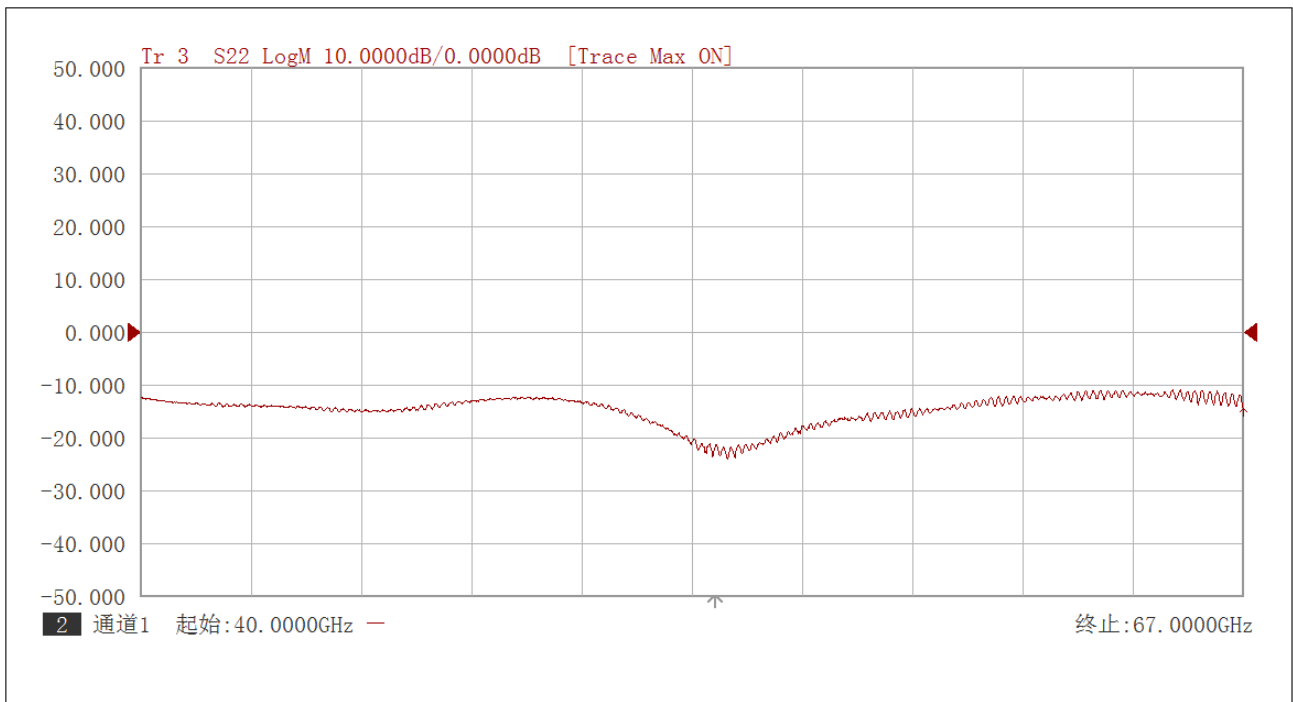


S21 Isolation vs Frequency



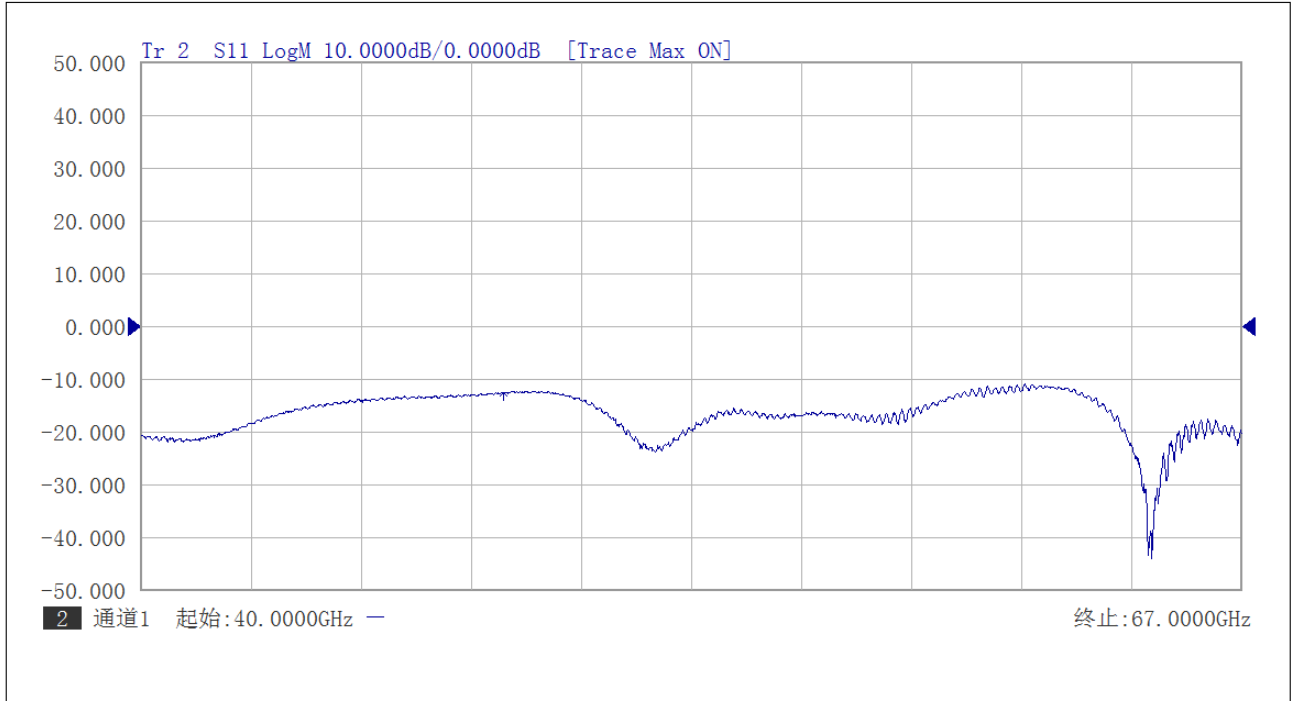


S11 SPST OFF

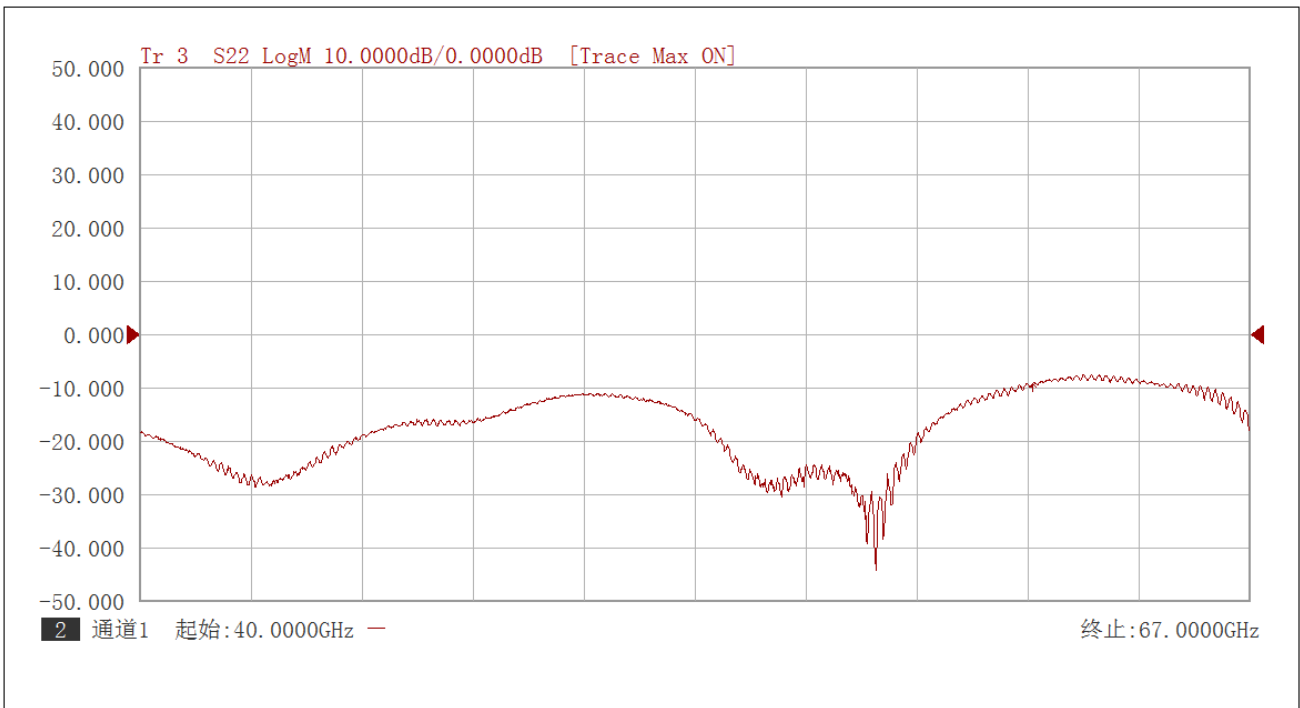


S22 SPST OFF



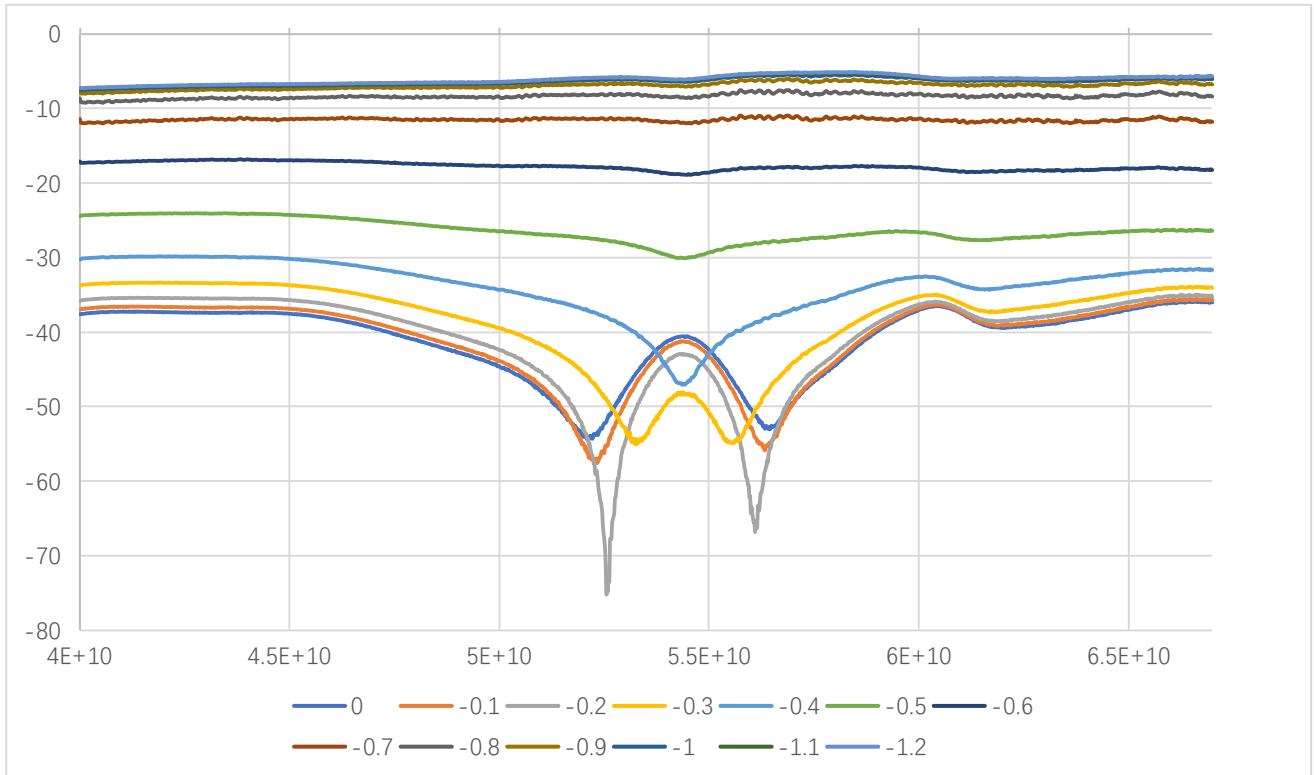


S11 SPST ON

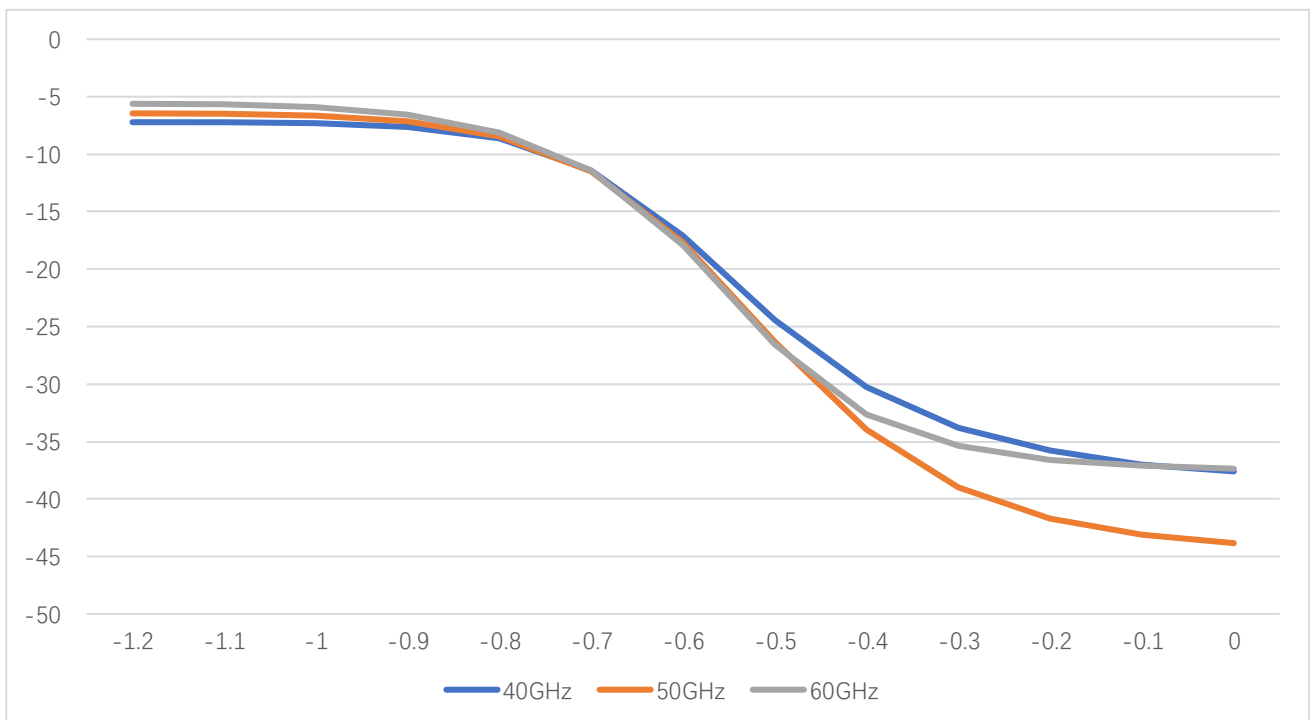


S22 SPST ON





Attenuation vs Control Voltage



Attenuation vs Voltage by 40/50/60GHz



Dimension (mm)

