

Fixed Attenuator Chip

- ◆ DC to 43.5GHz
- ◆ 12dB
- ◆ 1.1 W



Features

- Adopting advance GaAs technology
- Excellent attenuation accuracy & phase balance
- High ESD level
- Low VSWR
- Die Package

Model No. Description

FACXXXX

XX- attenuation: **dB.

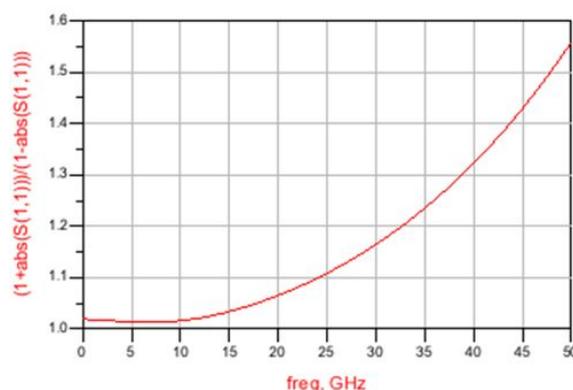
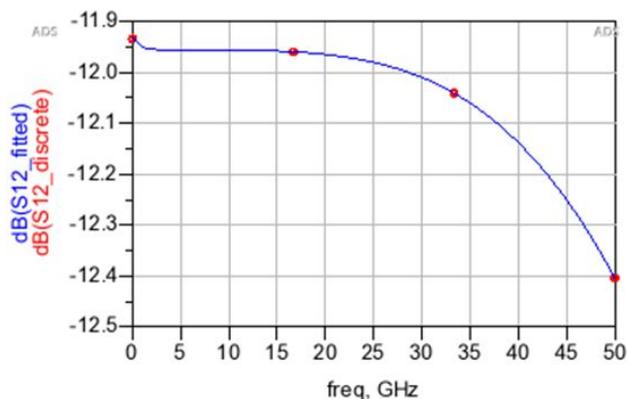
XX-frequency range 06: DC to 6GHz
 10: DC to 10GHz
 12: DC to 12.4GHz
 18: DC to 18GHz
 26: DC to 26.5GHz.
 43: DC to 43.5GHz.

Specifications

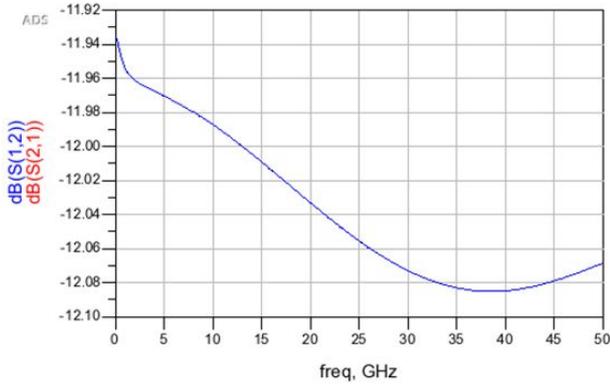
| | |
|-----------------------|-------------------|
| Frequency Range | DC to 43.5GHz |
| Attenuation | 12 dB |
| Nonimal Impeance | 50 Ohm |
| Rated Input Power | 1.1W@25℃ 0.8W@85℃ |
| Operating Temperature | -45 ℃ to +85 ℃ |

| Paramter | The testing result of bare chip in probe station | | Test result of add 300um double wire-bonding | |
|------------------|--|---------|--|---------|
| | Freq.Range (GHz) | Typ. | Freq.Range (GHz) | Typ. |
| Attenuation (dB) | DC-5 | 12±0.10 | DC-5 | 12±0.10 |
| | 5-15 | 12±0.20 | 5-15 | 12±0.20 |
| | 15-18 | 12±0.25 | 15-18 | 12±0.25 |
| | 18-26.5 | 12±0.35 | 18-26.5 | 12±0.35 |
| | 26.5-43.5 | 12±0.55 | 26.5-43.5 | 12±0.55 |
| VSWR (:1) | DC-5 | 1.10 | DC-5 | 1.10 |
| | 5-15 | 1.10 | 5-15 | 1.15 |
| | 15-18 | 1.10 | 15-18 | 1.20 |
| | 18-26.5 | 1.20 | 18-26.5 | 1.30 |
| | 26.5-43.5 | 1.45 | 26.5-43.5 | 1.30 |

Test Curve

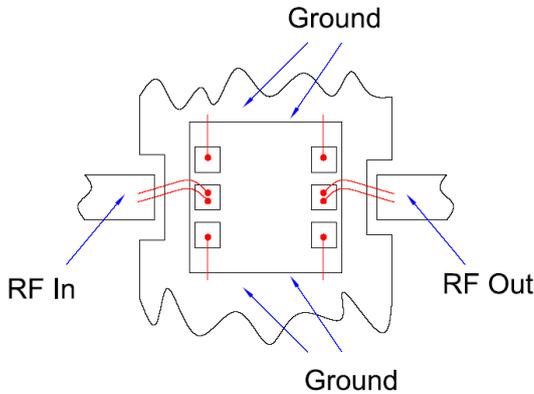


The testing result of bare chip in probe station



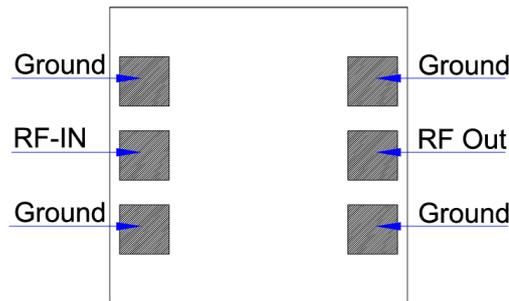
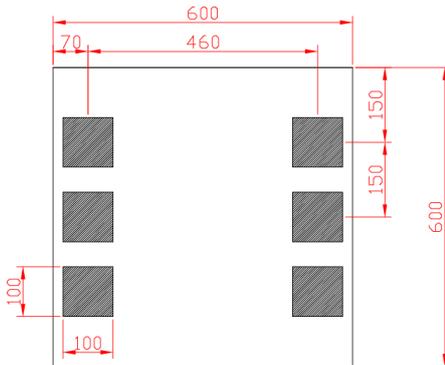
Test result of add 300um double wire-bonding

Recommended Layout



Package Outlines

Note: all dimensions shown in um



| Parameter | value (um) |
|----------------|------------|
| Thickness | 100 |
| width | 600 |
| length | 600 |
| Electrode size | 100x100 |