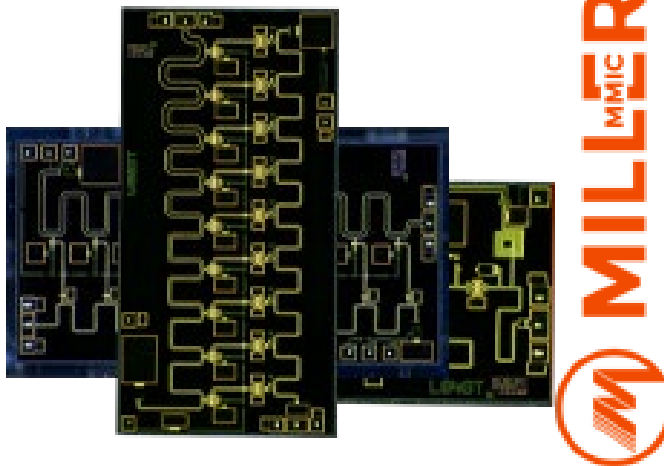


Features

- Ultra broadband three channel attenuator
- Frequency Range: DC - 40GHz
- 3 Channels with 3 different Attenuation value
- Power Handling: 27dBm
- 50Ω Input and Output Impedance
- Return Loss: 20dB
- Bare Die (QFN Available)
- RoHS & REACH Compliant

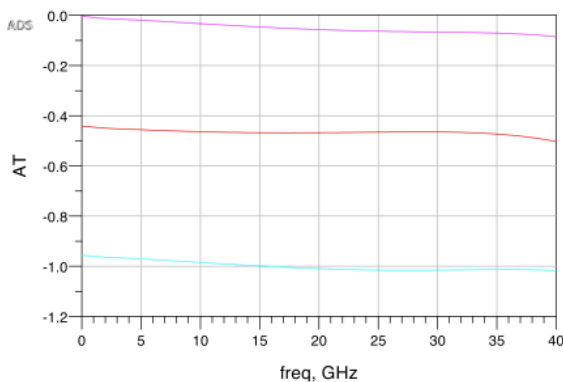


Typical Applications

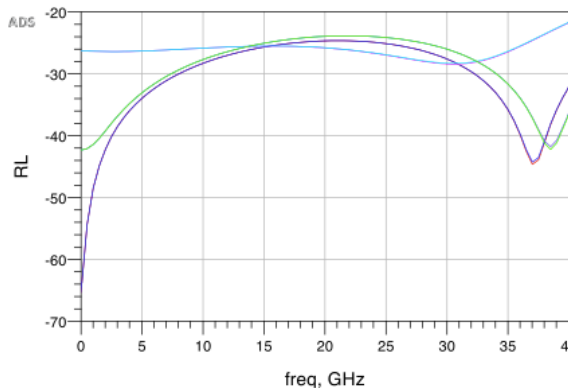
- Test Instrumentation
- Microwave Radio & VSAT
- Military & Space
- Telecom Infrastructure
- General Purpose

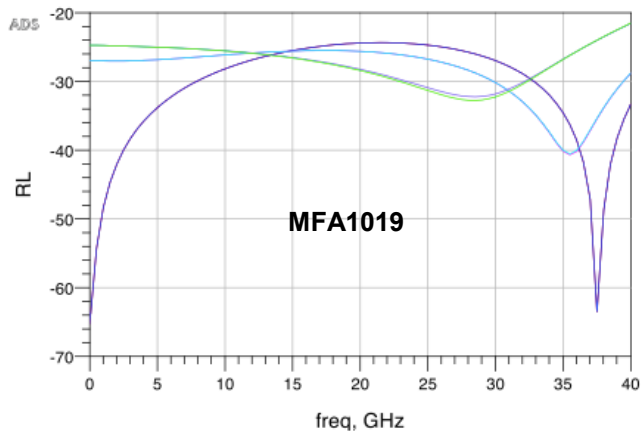
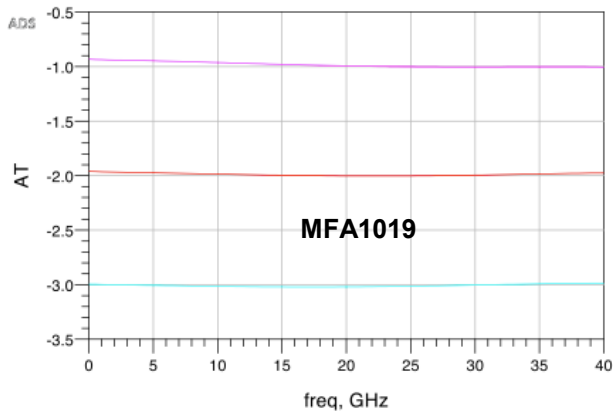
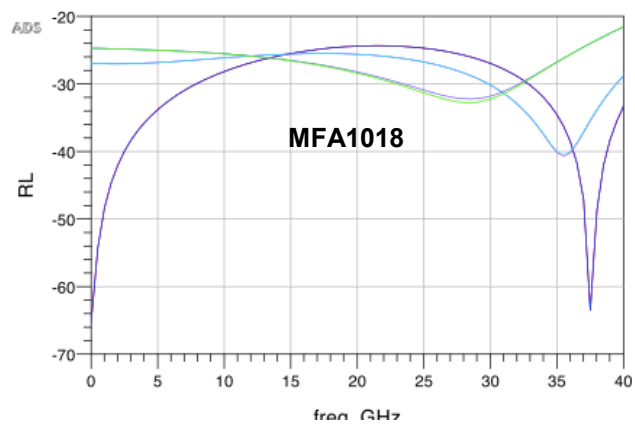
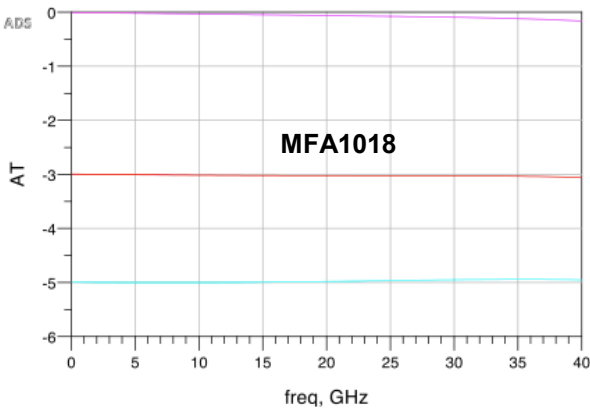
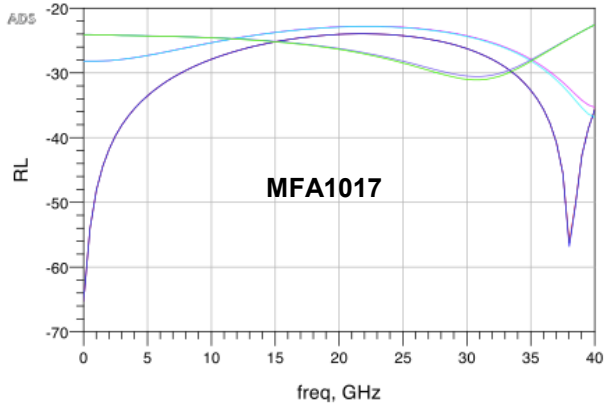
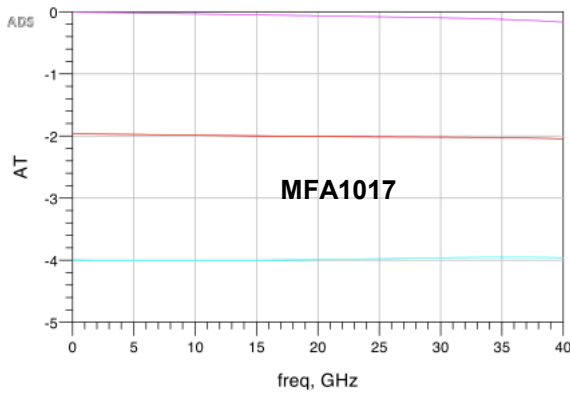
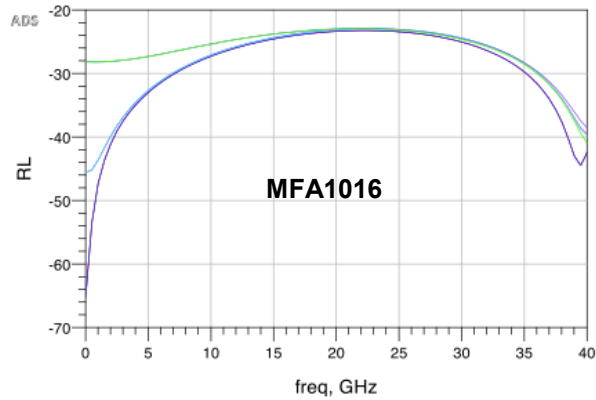
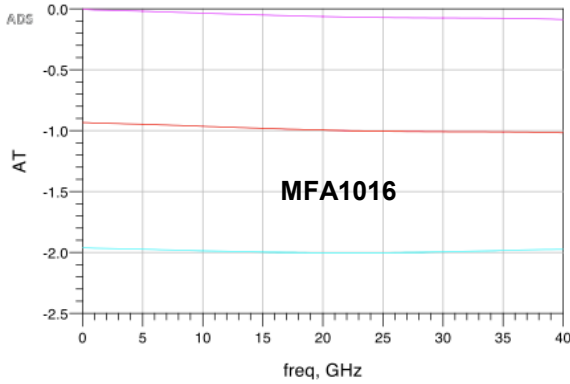
| Part Number | Product Description | Frequency (GHz) | Channel | Attenuation (dB) | Power (dBm) | Flatness (dB) | VSWR |
|-------------|----------------------------|-----------------|---------|------------------|-------------|---------------|------|
| MFA1015 | 3 Channel Fixed Attenuator | DC-40 | 3 | 0/0.5/1 | 27 | ±0.3 | 1.22 |
| MFA1016 | 3 Channel Fixed Attenuator | DC-40 | 3 | 0/1/2 | 27 | ±0.3 | 1.22 |
| MFA1017 | 3 Channel Fixed Attenuator | DC-40 | 3 | 0/2/4 | 27 | ±0.3 | 1.22 |
| MFA1018 | 3 Channel Fixed Attenuator | DC-40 | 3 | 0/3/5 | 27 | ±0.3 | 1.22 |
| MFA1019 | 3 Channel Fixed Attenuator | DC-40 | 3 | 1/2/3 | 27 | ±0.3 | 1.22 |

MFA1015



MFA1015

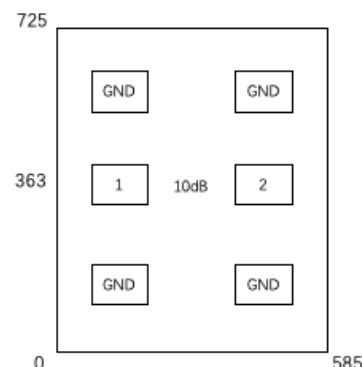




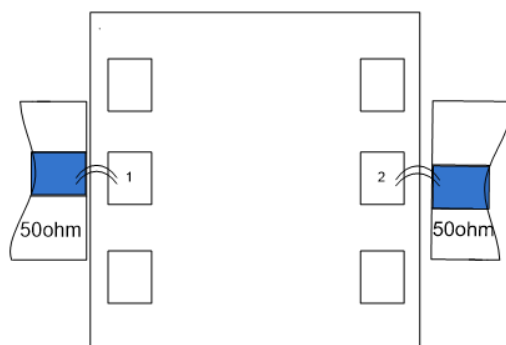
Outline Drawing:

 All Dimensions in μm

| Pad | Function | Description |
|------------|----------|---|
| 1 | RF IN | RF signal input terminal; DC blocking capacitor required. |
| 2 | RF OUT | RF signal output terminal; DC blocking capacitor required. |
| Die bottom | GND | Die bottom must be connected to RF/DC ground. |



Assembly Drawing



Notes:

1. Die thickness: $100\mu\text{m}$
2. Typical bond pad is $100*100\mu\text{m}^2$
3. Bond pad metalization: Gold
4. Backside metalization: Gold
5. Backside of the die (GND)
6. No connection required for unlabeled bond pads

Maximum Ratings:

1. Maximum input power: +27dBm
2. Operating temperature: -55°C to $+85^{\circ}\text{C}$
3. Storage temperature: -65°C to $+150^{\circ}\text{C}$

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