

# Attenuators

## SMA Subminiature "MINIPAD"®

### DC - 26.5 GHz High Performance

- DC-2, DC-8, DC-12.4, and DC-18 GHz units available
- Rugged Stainless Steel Construction
- Any Male/Female combination available
- Low cost alternatives available

Midwest Microwave's SMA subminiature series of fixed coaxial attenuators (MINIPAD®) provide temperature stable, ruggedly built, precision performance in a compact light weight package size. Attenuation values up through 30 dB in 1 dB increments are available with any of the units described and with any combination of female or male SMA connectors.

#### SPECIFICATIONS - HIGH PERFORMANCE

**Frequency:** DC - 18.0, DC - 12.4, DC - 8.0 GHz

DC - 4.0, and DC - 2.0 GHz

**Attenuation Accuracy:** 1-6 dB  $\pm$  0.3dB

7-20 dB  $\pm$  0.5 dB

21-30 dB  $\pm$  1.0 dB

**VSWR:** 1.07+.015 (f GHz) max.

**Power:** 2 Watts Average @ +25°C derated linearly to .5 watts @ +125°C

**Peak Power:** 200 Watts

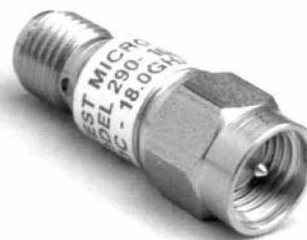
**Operating Temperature Range:** -65 to +125°C

**Finish:** Passivated Stainless Steel

| DC - 26.5 GHz                                                                            | 298 Series         | Model Numbers      |
|------------------------------------------------------------------------------------------|--------------------|--------------------|
| Male/Female                                                                              | Female/Female      | Male/Male          |
| ATT-0298-XX-SMA-02                                                                       | ATT-298F-XX-SMA-02 | ATT-298M-XX-SMA-02 |
| XX = Attenuation Value: Select 01-30dB in 1dB increments<br>(.5 dB increments available) |                    |                    |
| <b>HIGH PERFORMANCE</b>                                                                  |                    |                    |

| DC - 18 GHz                                                                              | 290 Series         | Model Numbers      |
|------------------------------------------------------------------------------------------|--------------------|--------------------|
| Male/Female                                                                              | Female/Female      | Male/Male          |
| ATT-0290-XX-SMA-02                                                                       | ATT-290F-XX-SMA-02 | ATT-290M-XX-SMA-02 |
| XX = Attenuation Value: Select 01-30dB in 1dB increments<br>(.5 dB increments available) |                    |                    |
| <b>HIGH PERFORMANCE</b>                                                                  |                    |                    |

| DC - 12.4 GHz                                                                            | 291 Series         | Model Numbers      |
|------------------------------------------------------------------------------------------|--------------------|--------------------|
| Male/Female                                                                              | Female/Female      | Male/Male          |
| ATT-0291-XX-SMA-02                                                                       | ATT-291F-XX-SMA-02 | ATT-291M-XX-SMA-02 |
| XX = Attenuation Value: Select 01-30dB in 1dB increments<br>(.5 dB increments available) |                    |                    |
| <b>HIGH PERFORMANCE</b>                                                                  |                    |                    |



#### TYPE II LOW VSWR - HIGH PERFORMANCE IMPROVED SPECIFICATIONS

##### Frequency GHz

DC - 4.0 GHz

4.0 - 8.0 GHz

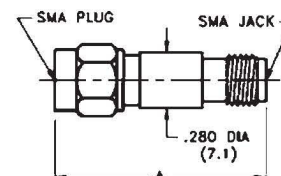
8.0 - 18 GHz

##### VSWR

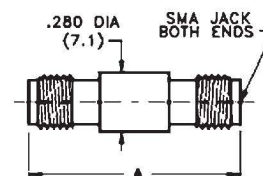
1.12 max

1.15 max

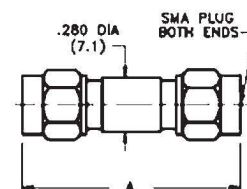
1.20 max



| Attenuation Value | Length A |
|-------------------|----------|
| 1-12 dB           | 0.86     |
| 13-30 dB          | 1.02     |



| Attenuation Value | Length A |
|-------------------|----------|
| 1-12 dB           | 0.90     |
| 13-30 dB          | 1.03     |



| Attenuation Value | Length A |
|-------------------|----------|
| 1-12 dB           | 0.98     |
| 13-30 dB          | 1.12     |

# Mouser Electronics

Authorized Distributor

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[ATT-0291-15-SMA-02](#)