

# 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

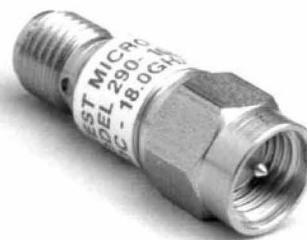
**Operating Temperature Range:** -65 to +125°C

**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 (.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 (.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 (.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

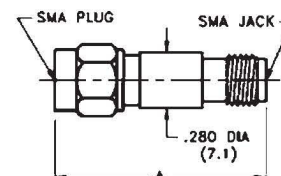
8.0 - 18 GHz

##### VSWR

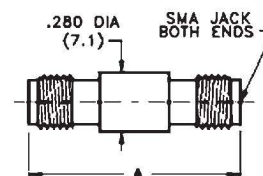
1.12 max

1.15 max

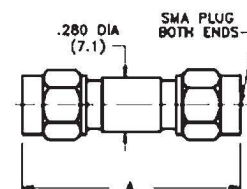
1.20 max



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-0290-09-SMA-02](#)