

# 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 ± 0.3dB  
7-20 dB ± 0.5 dB  
21-30 dB ± 1.0 dB

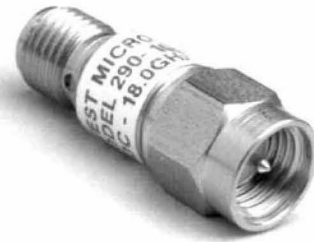
**VSWR:** 1.07+.015 (f GHz) max.

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

**Peak Power:** 200 Watts

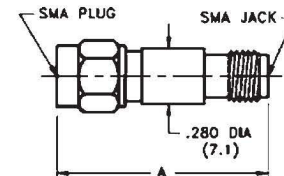
**Operating Temperature Range:** -65 to +125C

**Finish:** Passivated Stainless Steel

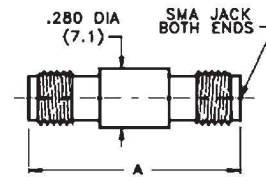


#### TYPE II LOW VSWR - HIGH PERFORMANCE IMPROVED SPECIFICATIONS

Frequency GHz	VSWR
DC - 4.0 GHz	1.12 max
4.0 - 8.0 GHz	1.15 max
8.0 - 18 GHz	1.20 max



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

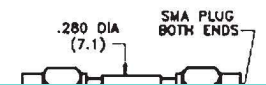


Attenuation Value	Length A
1-12 dB	0.90
13-30 dB	1.03

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)			
<i>HIGH PERFORMANCE</i>			

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)			
<i>HIGH PERFORMANCE</i>			

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)			
<i>HIGH PERFORMANCE</i>			



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)			
<i>HIGH PERFORMANCE</i>			