



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# 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

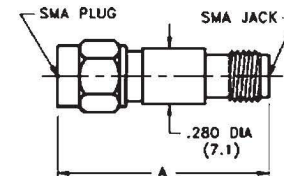
**Finish:** Passivated Stainless Steel



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

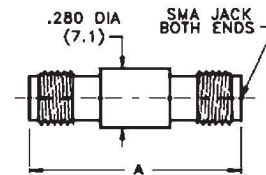
Frequency GHz	VSWR
DC - 4.0 GHz	1.12 max
4.0 - 8.0 GHz	1.15 max
8.0 - 18 GHz	1.20 max

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>			



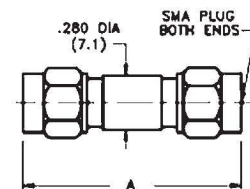
Attenuation Value	Length A
1-12 dB	0.86
13-30 dB	1.02

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>			



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

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>			



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