

DC - 26.5 GHz High Performance

- DC-2, DC-8, DC-12.4, and DC-18.0 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+0.015 (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

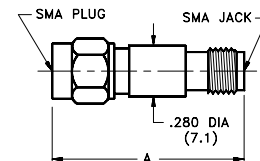
Finish: Passivated Stainless Steel



TYPE II LOW VSWR - HIGH PERFORMANCE IMPROVED SPECIFICATIONS

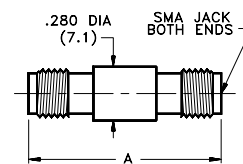
Frequency GHz	VSWR
DC - 4.0 GHz	1.12 max
4.0 - 8.0 GHz	1.15 max
8.0 - 18 GHz	1.20 max

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)		
HIGH PERFORMANCE		



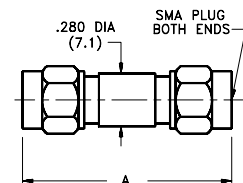
Attenuation Value	Length A
1-12 dB	0.86
13-30 dB	1.02

DC - 18.0 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)		
HIGH PERFORMANCE		



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)		
HIGH PERFORMANCE		



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

Note: * U.S. Patent No. 3,824,506 applies to all "MINIPAD"® Fixed Attenuators


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SKU	Product	Frequency	Power	Body	Interface	Gender	dB	
Subminiature MINIPAD SMA Fixed Attenuators								
ATT-0290-00-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	0	More Details
ATT-0290-01-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	1	More Details
ATT-0290-02-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	2	More Details
ATT-0290-03-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	3	More Details
ATT-0290-04-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	4	More Details
ATT-0290-05-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	5	More Details
ATT-0290-06-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	6	More Details
ATT-0290-07-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	7	More Details
ATT-0290-08-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	8	More Details
ATT-0290-09-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	9	More Details
ATT-0290-10-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	10	More Details
ATT-0290-11-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	11	More Details
ATT-0290-12-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	12	More Details
ATT-0290-13-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	13	More Details
ATT-0290-14-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	14	More Details
ATT-0290-15-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	15	More Details
ATT-0290-16-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	16	More Details
ATT-0290-17-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	17	More Details
ATT-0290-18-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	18	More Details
ATT-0290-19-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	19	More Details
ATT-0290-20-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	20	More Details
ATT-0290-21-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	21	More Details
ATT-0290-22-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	22	More Details
ATT-0290-23-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	23	More Details
ATT-0290-24-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	24	More Details
ATT-0290-25-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	25	More Details
ATT-0290-26-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	26	More Details
ATT-0290-27-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	27	More Details
ATT-0290-28-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	28	More Details
ATT-0290-29-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	29	More Details
ATT-0290-30-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	30	More Details
ATT-0290-40-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	40	More Details
ATT-0290-50-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	50	More Details
ATT-0290-70-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	0.5	More Details
ATT-0290-71-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	1.5	More Details
ATT-0290-72-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	2.5	More Details
ATT-0290-73-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	3.5	More Details
ATT-0290-74-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	4.5	More Details
ATT-0290-75-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	5.5	More Details
ATT-0290-76-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	6.5	More Details
ATT-0290-77-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	7.5	More Details
ATT-0290-78-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	8.5	More Details
ATT-0290-79-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	9.5	More Details

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ATT-0290-80-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	10.5	More Details
ATT-0290-81-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	11.5	More Details
ATT-0290-82-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	12.5	More Details
ATT-0290-83-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	13.5	More Details
ATT-0290-84-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	14.5	More Details
ATT-0290-85-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	15.5	More Details
ATT-0290-86-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	16.5	More Details

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SKU	Product	Frequency	Power	Body	Interface	Gender	dB	
Subminiature MINIPAD SMA Fixed Attenuators								
ATT-0290-87-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	17.5	More Details
ATT-0290-88-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	18.5	More Details
ATT-0290-89-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	19.5	More Details
ATT-0290-90-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	20.5	More Details
ATT-0290-91-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	21.5	More Details
ATT-0290-92-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	22.5	More Details
ATT-0290-93-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	23.5	More Details
ATT-0290-94-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	24.5	More Details
ATT-0290-95-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	25.5	More Details
ATT-0290-96-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	26.5	More Details
ATT-0290-97-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	27.5	More Details
ATT-0290-98-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	28.5	More Details
ATT-0290-99-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	29.5	More Details
ATT-0290-A2-SMA-02	Attenuator	18	2	STD	SMA/SMA	M/F	.25dB	More Details

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