

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

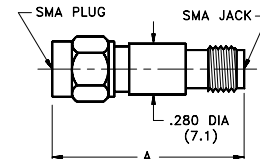
Finish: Passivated Stainless Steel



TYPE II LOW VSWR - HIGH PERFORMANCE IMPROVED SPECIFICATIONS

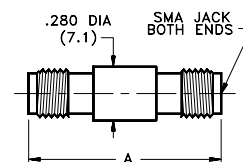
Frequency GHz	VSWR
DC - 4.0 GHz	1.12 max
4.0 - 8.0 GHz	1.15 max
8.0 - 18 GHz	1.20 max

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		



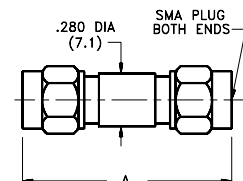
Attenuation Value	Length A
1-12 dB	0.86
13-30 dB	1.02

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	
Hex Body Subminiature MINIPAD SMA Fixed Attenuators								
ATT-291M-00-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	0	More Details
ATT-291M-01-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	1	More Details
ATT-291M-02-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	2	More Details
ATT-291M-03-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	3	More Details
ATT-291M-04-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	4	More Details
ATT-291M-05-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	5	More Details
ATT-291M-06-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	6	More Details
ATT-291M-07-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	7	More Details
ATT-291M-08-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	8	More Details
ATT-291M-09-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	9	More Details
ATT-291M-10-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	10	More Details
ATT-291M-11-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	11	More Details
ATT-291M-12-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	12	More Details
ATT-291M-13-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	13	More Details
ATT-291M-14-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	14	More Details

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Attenuator

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ATT-0640-06-29M-02
6 dB DC-40 Ghz Attenuator
Subminiature Minipad
2.9mm/2.9mm 1 watt
Passivated

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Attenuator

[BUY NOW](#) Our Price: **\$86.10**


ATT-0263-10-SMA-02
10 dB DC-18 Ghz Attenuator
Miniature SMA/SMA 2 watt
Passivated

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ATT-291M-15- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	15	More Details
ATT-291M-16- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	16	More Details
ATT-291M-17- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	17	More Details
ATT-291M-18- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	18	More Details
ATT-291M-19- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	19	More Details
ATT-291M-20- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	20	More Details
ATT-291M-21- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	21	More Details
ATT-291M-22- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	22	More Details
ATT-291M-23- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	23	More Details
ATT-291M-24- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	24	More Details
ATT-291M-25- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	25	More Details
ATT-291M-26- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	26	More Details
ATT-291M-27- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	27	More Details
ATT-291M-28- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	28	More Details
ATT-291M-29- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	29	More Details
ATT-291M-30- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	30	More Details
ATT-291M-70- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	0.5	More Details
ATT-291M-71- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	1.5	More Details
ATT-291M-72- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	2.5	More Details
ATT-291M-73- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	3.5	More Details

ATT-291M-74- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	4.5	More Details
ATT-291M-75- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	5.5	More Details
ATT-291M-76- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	6.5	More Details
ATT-291M-77- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	7.5	More Details
ATT-291M-78- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	8.5	More Details
ATT-291M-79- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	9.5	More Details
ATT-291M-80- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	10.5	More Details
ATT-291M-81- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	11.5	More Details
ATT-291M-82- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	12.5	More Details
ATT-291M-83- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	13.5	More Details
ATT-291M-84- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	14.5	More Details
ATT-291M-85- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	15.5	More Details
ATT-291M-86- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	16.5	More Details
ATT-291M-87- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	17.5	More Details
ATT-291M-88- HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	18.5	More Details

[Matches 1-50 of 122 found.](#)

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SKU	Product	Frequency	Power	Body	Interface	Gender	dB	
Hex Body Subminiature MINIPAD SMA Fixed Attenuators								
ATT-291M-89-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	19.5	More Details
ATT-291M-90-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	20.5	More Details
ATT-291M-91-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	21.5	More Details
ATT-291M-92-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	22.5	More Details
ATT-291M-93-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	23.5	More Details
ATT-291M-94-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	24.5	More Details
ATT-291M-95-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	25.5	More Details
ATT-291M-96-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	26.5	More Details
ATT-291M-97-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	27.5	More Details
ATT-291M-98-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	28.5	More Details
ATT-291M-99-HEX-02	Attenuator	12.4	2	HEX	SMA/SMA	M/M	29.5	More Details
Subminiature MINIPAD SMA Fixed Attenuators								
ATT-291M-00-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	0	More Details
ATT-291M-01-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	1	More Details
ATT-291M-02-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	2	More Details

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Attenuator

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ATT-0640-06-29M-02
6 dB DC-40 Ghz Attenuator
Subminiature Minipad
2.9mm/2.9mm 1 watt
Passivated

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Termination

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TRM-2445-F0-SMA-02
DC-12.4 Ghz Termination
Ultra Short Miniature Female
SMA 0.5 watt Passivated

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ATT-291M-03-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	3	More Details
ATT-291M-04-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	4	More Details
ATT-291M-05-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	5	More Details
ATT-291M-06-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	6	More Details
ATT-291M-07-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	7	More Details
ATT-291M-08-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	8	More Details
ATT-291M-09-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	9	More Details
ATT-291M-10-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	10	More Details
ATT-291M-11-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	11	More Details
ATT-291M-12-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	12	More Details
ATT-291M-13-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	13	More Details
ATT-291M-14-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	14	More Details
ATT-291M-15-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	15	More Details
ATT-291M-16-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	16	More Details
ATT-291M-17-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	17	More Details
ATT-291M-18-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	18	More Details
ATT-291M-19-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	19	More Details
ATT-291M-20-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	20	More Details
ATT-291M-21-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	21	More Details
ATT-291M-22-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	22	More Details

ATT-291M-23-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	23	More Details
ATT-291M-24-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	24	More Details
ATT-291M-25-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	25	More Details
ATT-291M-26-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	26	More Details
ATT-291M-27-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	27	More Details
ATT-291M-28-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	28	More Details
ATT-291M-29-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	29	More Details
ATT-291M-30-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	30	More Details
ATT-291M-70-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	0.5	More Details
ATT-291M-71-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	1.5	More Details
ATT-291M-72-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	2.5	More Details
ATT-291M-73-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	3.5	More Details
ATT-291M-74-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	4.5	More Details
ATT-291M-75-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	5.5	More Details
ATT-291M-76-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	6.5	More Details
ATT-291M-77-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	7.5	More Details

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Subminiature MINIPAD SMA Fixed Attenuators								
ATT-291M-78-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	8.5	More Details
ATT-291M-79-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	9.5	More Details
ATT-291M-80-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	10.5	More Details
ATT-291M-81-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	11.5	More Details
ATT-291M-82-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	12.5	More Details
ATT-291M-83-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	13.5	More Details
ATT-291M-84-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	14.5	More Details
ATT-291M-85-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	15.5	More Details
ATT-291M-86-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	16.5	More Details
ATT-291M-87-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	17.5	More Details
ATT-291M-88-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	18.5	More Details
ATT-291M-89-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	19.5	More Details
ATT-291M-90-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	20.5	More Details
ATT-291M-91-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	21.5	More Details
ATT-291M-92-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	22.5	More Details

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6 dB DC-40 Ghz Attenuator
Subminiature Minipad
2.9mm/2.9mm 1 watt
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ATT-0263-30-SMA-02
30 dB DC-18 Ghz Attenuator
Miniature SMA/SMA 2 watt
Passivated

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ATT-291M-93-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	23.5	More Details
ATT-291M-94-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	24.5	More Details
ATT-291M-95-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	25.5	More Details
ATT-291M-96-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	26.5	More Details
ATT-291M-97-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	27.5	More Details
ATT-291M-98-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	28.5	More Details
ATT-291M-99-SMA-02	Attenuator	12.4	2	STD	SMA/SMA	M/M	29.5	More Details

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