

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

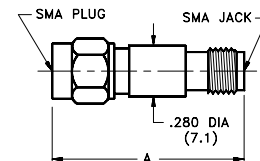
Finish: Passivated Stainless Steel



TYPE II LOW VSWR - HIGH PERFORMANCE IMPROVED SPECIFICATIONS

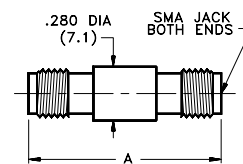
Frequency GHz	VSWR
DC - 4.0 GHz	1.12 max
4.0 - 8.0 GHz	1.15 max
8.0 - 18 GHz	1.20 max

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		



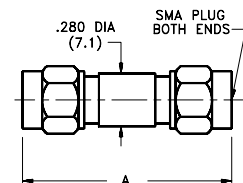
Attenuation Value	Length A
1-12 dB	0.86
13-30 dB	1.02

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

We also have

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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Connector

[BUY NOW](#) Our Price: **\$11.20**


SMA-1058-55-000-02
Male SMA Passivated
Connector Flexible Crimp
Contact
RG58, RG141, RG303 cable

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

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

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

[BUY NOW](#) Our Price: **\$34.50**


BMA-5061-12-DRP-02
Female BMA Passivated
Connector Feedthru
Launcher Drop-in Hermetic
Connector Only

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

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

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

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Attenuator

BUY NOW Our Price: **\$222.00**


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

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Connector

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BMA-5012-12-TRM-02
 Female BMA Passivated
 Connector Feedthru
 Launches to Microstrip -
 Press Fit Solder Contact

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

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