

# Attenuators

## SMA Subminiature "MINIPAD"®

### Round Body - Low Cost - Inexpensive Types

DC - 18.0 GHz		444 Series	Model Numbers
Male/Female	Female/Female		Male/Male
ATT-0444-XX-SMA-02	ATT-444F-XX-SMA-02		ATT-444M-XX-SMA-02
XX = Attenuation Value: Select 01-30dB in 1dB increments			
<i>LOW COST</i>			



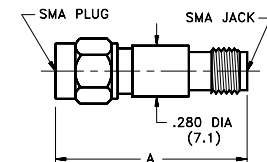
DC - 12.4 GHz		445 Series	Model Numbers
Male/Female	Female /Female		Male/Male
ATT-0445-XX-SMA-02	ATT-445F-XX-SMA-02		ATT-445M-XX-SMA-02
XX = Attenuation Value: Select 01-30dB in 1dB increments			
<i>LOW COST</i>			

### SPECIFICATIONS - LOW COST

#### Attenuation Accuracy:

	DC - 12.4 GHz	12.4 - 18 GHz
1-4 dB	± 0.75 dB	± 0.75 dB
5-8 dB	± 0.75 dB	± 1.00 dB
9-12 dB	± 1.00 dB	± 1.25 dB
13-20 dB	± 1.50 dB	± 1.50 dB
21-30 dB	± 2.00 dB	± 2.00 dB

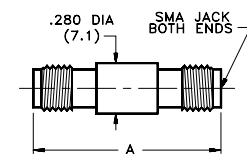
VSWR:	Frequency (GHz)	VSWR
	DC - 4.0	1.25 max
	4.0 - 12.4	1.45 max
	12.4 - 18.0	1.65 max



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

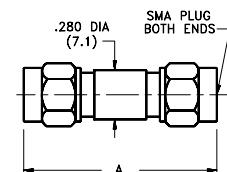
DC - 8.0 GHz		446 Series	Model Numbers
Male/Female	Female/Female		Male/Male
ATT-0446-XX-SMA-02	ATT-446F-XX-SMA-02		ATT-446M-XX-SMA-02
XX = Attenuation Value: Select 01-30dB in 1dB increments			
<i>LOW COST</i>			

DC - 4.0 GHz		447 Series	Model Numbers
Male/Female	Female/Female		Male/Male
ATT-0447-XX-SMA-02	ATT-447F-XX-SMA-02		ATT-447M-XX-SMA-02
XX = Attenuation Value: Select 01-30dB in 1dB increments			
<i>LOW COST</i>			



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

DC - 2.0 GHz		448 Series	Model Numbers
Male/Female	Female/Female		Male/Male
ATT-0448-XX-SMA-02	ATT-448F-XX-SMA-02		ATT-448M-XX-SMA-02
XX = Attenuation Value: Select 01-30dB in 1dB increments			
<i>LOW COST</i>			



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

Note: Low Cost Models are available in Hex Body - Designate by substituting "HEX" for "000" in Model No.