

# Attenuators

## SMA Subminiature "MINIPAD"®

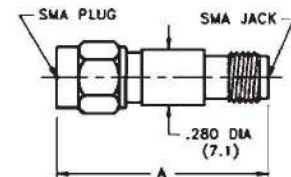
DC - 8.0 GHz		292 Series	Model Numbers
Male/Female		Female/Female	Male/Male
ATT-0292-XX-SMA-02		ATT-292F-XX-SMA-02	ATT-292M-XX-SMA-02
XX = Attenuation Value: Select 01-30dB in 1dB increments (.5 dB increments available)			
<b>HIGH PERFORMANCE</b>			



DC - 2.0 GHz		294 Series	Model Numbers
Male/Female		Female/Female	Male/Male
ATT-0294-XX-SMA-02		ATT-294F-XX-SMA-02	ATT-294M-XX-SMA-02
XX = Attenuation Value: Select 01-30dB in 1dB increments (.5 dB increments available)			
<b>HIGH PERFORMANCE</b>			

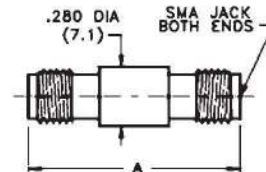
### LOW VSWR - Type II High Performance Attenuators

DC - 18.0 GHz		451 Series	Model Numbers
Male/Female		Female/Female	Male/Male
ATT-0451-XX-SMA-02		ATT-451F-XX-SMA-02	ATT-451M-XX-SMA-02
XX = Attenuation Value: Select 01-30dB in 1dB increments			
<b>LOW VSWR</b> - see improved performance specifications on page 10.			



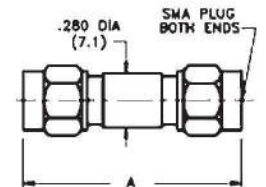
Attenuation Value	Length A
1-12 dB	0.86
13-30 dB	1.02

DC - 12.4 GHz		452 Series	Model Numbers
Male/Female		Female/Female	Male/Male
ATT-0452-XX-SMA-02		ATT-452F-XX-SMA-02	ATT-452M-XX-SMA-02
XX = Attenuation Value: Select 01-30dB in 1dB increments			
<b>LOW VSWR</b> - see improved performance specifications on page 10.			



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

DC - 4.0 GHz		454 Series	Model Numbers
Male/Female		Female/Female	Male/Male
ATT-0454-XX-SMA-02		ATT-454F-XX-SMA-02	ATT-454M-XX-SMA-02
XX = Attenuation Value: Select 01-30dB in 1dB increments			
<b>LOW VSWR</b> - see improved performance specifications on page 10.			



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

Note : 1. Low VSWR Models are available in Hex Body - Designate by substituting "HEX" for "SMA" in Model No.