

HIGH VOLTAGE PULSE ATTENUATOR

MODEL 102 Series

ADVANTAGES

- ⊕ High voltage pulse rated
- ⊕ Least expensive high voltage coaxial attenuator available
- ⊕ Small dimensions
- ⊕ Higher average power than 142 series



Model 102-NMFP-20

DESCRIPTION

This unit utilizes a patented design, which provides for maintaining good HV capabilities and good power dissipation. While this unit has a simpler housing design than our precision attenuators, for better heat dissipation, it still provides a very respectable and clean 50 ps output risetime.

SPECIFICATIONS

Voltage Ratio:	10.0/1 Vr (20dB)
Maximum Input:	5.0kV, 80ns FWHM Pulse, 500kW Peak Power** 2.5kV, 400ns FWHM Pulse, 125kW Peak Power 1.25kV, 1600ns FWHM Pulse, 31kW Peak Power
Average Input Power:	5W maximum 10W with optional fins (Model CF) for external cooling
Impedance:	50 $\Omega \pm 1\%$
Risetime through Unit:	< 50ps
Bandwidth (-3dB):	DC to 7GHz
Reflection-TDR:	< 2% to a 100ps risetime step function
SWR:	< 1.05 to 1GHz < 1.30 to 4GHz
Voltage Coefficient:	< 1% at rated voltage
Connectors:	102-NMFP-20 N Male/Female** 102-GLP-20 GR 874 locking 102-GP-20 GR 874 non-locking
Dimensions:	102-NMFP-20 5" long x .8" dia. 102-GP-20 4.5" long x 0.625" dia. 102-GLP-20 4.5" long x 1.01" dia.
Weight:	3/8 lb.

** Units with N connectors are limited to a 4kV rating.