HIGH VOLTAGE PULSE ATTENUATOR
MODEL 2237-HFNFP, 2239-HFNFP

DESCRIPTION
26dB attenuators with HN female input connectors.

SPECIFICATIONS

Voltage Ratio: 20/1 Vr (26dB)

Maximum Input:
2237 10kV, 400ns FWHM Pulse
2239 16kV/400ns, 20kV/200ns, FWHM Pulse

Peak Input Power:
2237 2MW at rated pulse width
2239 18MW at rated pulse width

Average Input Power:
2.5W maximum

Impedance:
50 Ω ± 1%

Risetime through Unit:
2237 < 50ps
2239 < 100ps

Bandwidth (-3dB):
2237 DC to 7.0GHz
2239 DC to 3.5GHz

Reflection-TDR:
Input < 4% to a 100ps risetime step function
Output < 3% to a 100ps risetime step function

Voltage Coefficient:
< 1% at rated voltage

Connectors:
HN female input *
N female output

Dimensions:
2237 4.8" long x 1.250" wide x 2" high
2239 10.5" long x 1.250" wide x 2" high

Weight:
2237 1 ¼ lbs.
2239 1 ¾ lbs.

NOTE: * Our type HN (HNB) connectors are specially designed to obtain minimum reflection coefficient for fast risetimes. For best pulse response, our model 401-HNB male or 402-HNB female cable connector for RG214/U coax should be used for interconnection. A RG214/U coax "pigtail" input is also available and can be supplied with a HNB male connector on the coax. We have found that the best HN Connector pair cannot withstand 25kV at 10ns pulse width for more than 1000 shots. We have to limit any attenuator with HN connectors to 20kV at 200ns. They can withstand 25 or 30kV at much shorter pulses. But we cannot specify what that pulse width limit may be.