

HIGH VOLTAGE PULSE TERMINATOR

ADVANTAGES OVER STANDARD RF TERMINATORS

- Low reflection coefficient
- Withstands high voltage pulses
- Pulse power rated
- Low voltage coefficient
- High reliability
- Impedance held very close to nominal



DESCRIPTION

Barth High Voltage Pulse Terminators are designed to terminate 50 ohm systems with a very low reflection coefficient. High voltage pulses are terminated with characteristics as good as, or better than, most instrument loads. These units are ideal for use in nuclear and high energy experiments. Extensive testing during manufacturing insures very high reliability for single-shot experiments. A voltage coefficient of the resistive film of less than .0001 %/V allows low voltage calibration of most systems.

TERMINATOR MODEL COMPARISON

Model	Peak Voltage	Maximum Input** @ Pulse width ns	Input reflection coefficient at 100ps τ	Connectors
101-xxx	2,500	400	< 1%	*
201 A-xxx	5,000	400	< 1%	*
201-BMP	3,000	250	< 1%	BNC male
2033-HFP	10,000	250	< 4%	HNB female
2051-GHMP	10,000	100	< 3%/100ps τ	GHV male
2051-GHFP	10,000	100	< 3%/100ps τ	GHV female
223-BMFP	4,000	100	< 5%	BNC male/female

NOTE: Our type HN (HNB) connectors are specially designed to obtain the minimum reflection coefficient for fast risetimes. For best pulse response, our Model 401-HNB male or Model 402-HNB female cable connector for RG214/U coax should be used for interconnection.

* Any male or female (GR, N, HNB) can be supplied. Units with N connectors are limited to a 4kV rating. The Model 101 is not supplied with HNB connectors to avoid voltage capability confusion. These are our most popular terminators, and are stocked for immediate delivery.

** See Technical Specifications (Maximum Input Limitations) on page 4 for explanation of voltage and pulse width ratings.