HIGH VOLTAGE PULSE MATCHED RESISTIVE POWER DIVIDER

Barth High Voltage Resistive Power Dividers are matched impedance coaxial devices for use primarily in pulsed 50 ohm systems, or where occasional transients would damage ordinary units. These units are ideal for use in nuclear and high energy experiments. These dividers feature input and output impedance very close to 50 ohms. 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.

ADVANTAGES OVER STANDARD RF POWER DIVIDERS

- Withstands High Voltage Pulses

- Low Voltage Coefficient
- Input/Output impedance held very close to nominal
- Low Reflection Coefficient

- High Reliability

- Pulse Power Rated

MATCHED RESISTIVE POWER DIVIDER MODEL COMPARISON

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Model	# of output ports	Voltage ratio dB	Maximum peak voltage	@ pulse width ns	Input reflection coefficient at 100ps τ	Risetime through unit ps	Connectors
151-xxx	2	6.0	2,500	400	< 4%	< 40	*
251-xxx	2		,			< 40	*
	3	6.0	5,000	400	< 4%		GR 874 locking
280-GLP	3	9.5	5,000	400	< 2%	< 50	GR 674 locking
	_						0144
2642-MMFP	2	6.0	1,000	400	< 1%	< 35	SMA female/SMA male
2642-MFP	2	6.0	1,000	400	< 1%	< 35	SMA female
2702-BFP	2	6.0	2,500	250	< 5%	< 65	BNC female
2703-BFP	3	9.5	2,500	250	< 5%	< 65	BNC female
2704-BFP	4	12.0	2,500	250	< 5%	< 65	BNC female
2705-BFP	5	14.0	2,500	250	< 5%	< 65	BNC female
2706-BFP	6	15.6	2,500	250	< 5%	< 65	BNC female
2746-NFMF	6	15.6	4,000	100	< 4%	< 45	N female/SMA female
2812-NFP	2	6.0	2,500	250	< 2%	< 50	N female
2813-NFP	3	9.5	2,500	250	< 2%	< 50	N female
2814-NFP	4	12.0	2,500	250	< 2%	< 50	N female
2815-NFP	5	14.0	2,500	250	< 2%	< 50	N female
2816-NFP	6	15.6	2,500	250	< 2%	< 50	N female
281x-NMFP	**	**	2,500	250	< 2%	< 50	N male/N female
281x-HFNFP	**	**	5,000	100	< 2%	< 50	HN female/N female
281x-UNFP	**	**	10,000	25	< 3%	< 50	UHLC/N female
2825-NFP	5	14.0	4,000	100	< 2%	< 75	N female
2828-NFP	8	18.1	4,000	100	< 2%	< 65	N female
2830-NFP	10	20.0	4,000	100	< 2%	< 70	N female
2832-NFP	12	21.6	4,000	100	< 2%	< 75	N female

^{*} Any male or female (GR, N, HNB) can be supplied. Units with N connectors are limited to 4kV.

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^{**} Refer to similar - NFP model above for # of Output Ports, and Voltage Ratio.