

HIGH VOLTAGE PULSE MATCHED RESISTIVE POWER DIVIDER MODEL 2810 SERIES



DESCRIPTION

The 2810 series 50 ohm matched resistive power divider equally divides and distributes signals in high voltage pulse applications.

SPECIFICATIONS

Voltage Ratio:	2812-NFP/NMFP	}	2 WAY DIVIDER
	2812-HFNFP		2.0/1 $V_r \pm 2\%$ (6.02dB)
	2812-UNFP		
	2813-NFP/NMFP	}	3 WAY DIVIDER
	2813-HFNFP		3.0/1 $V_r \pm 2\%$ (9.54dB)
	2813-UNFP		
	2814-NFP/NMFP	}	4 WAY DIVIDER
	2814-HFNFP		4.0/1 $V_r \pm 2\%$ (12.04dB)
	2814-UNFP		
	2815-NFP/NMFP	}	5 WAY DIVIDER
	2815-HFNFP		5.0/1 $V_r \pm 2\%$ (13.98dB)
	2815-UNFP		
	2816-NFP/NMFP	}	6 WAY DIVIDER
	2816-HFNFP		6.0/1 $V_r \pm 2\%$ (15.56dB)
	2816-UNFP		

HIGH VOLTAGE PULSE MATCHED RESISTIVE POWER DIVIDER

MODEL 2810 SERIES

SPECIFICATIONS continued

Maximum input:	281x-NFP/NMFP	2.5kV, 250ns FWHM Pulse
	281x-HFNFP	5.0kV, 100ns FWHM Pulse
	281x-UNFP	10.0kV, 25ns FWHM Pulse
Peak Input Power:	281x-NFP/NMFP	125kW at rated pulse width
	281x-HFNFP	500kW at rated pulse width
	281x-UNFP	1.0MW at rated pulse width
Average Input Power:	8W maximum	
Impedance:	50 $\Omega \pm 1\%$	
Reflection-TDR:	281x-NFP	Input < 2% to a 100ps risetime step function Output < 6% to a 100ps risetime step function
	281x-UNFP	Input < 3%
Risetime through Unit:	< 50ps	
Bandwidth:	DC to 7GHz	
Maximum Precursor:	< $\pm 0.1\%$ for a 100ps risetime pulse	
Time Domain Overshoot:	< 2% overshoot for a 100ps risetime input pulse with no ringing	
Time Match between Ports:	± 10 ps maximum time difference between any/all output ports	
Attenuation Matching:	$\pm 1.0\%$ between ports from DC to 300MHz minimum	
Voltage Coefficient:	< 1% at rated voltage	
Connectors:	281x-NFP	N female (standard stocked configuration)
	281x-NMFP	N male input, N female output
	281x-HFNFP	HN female input, N female output
	281x-UNFP	Ultra fast BE-100 input, N female output
	Note: Inputs are labeled, outputs are numbered.	
Dimensions:	Outline drawings available	
Weight:	2812-NFP	approx. $\frac{1}{2}$ lb.
	2813-NFP	approx. $\frac{3}{4}$ lb.
	2814-NFP	approx. $\frac{7}{8}$ lb.
	2815-NFP	approx. 1 lb.
	2816-NFP	approx. $1 \frac{1}{4}$ lb.

x = number of outputs (2, 3, 4, 5, or 6)