

Custom High Power 2 Way Power Dividers/Combiners 50 watts to 200 watts



RLC Electronics' custom high power 2 way dividers/combiners are in phase "Wilkinson" type designs with excellent electrical performance within the band of +/- 12% of any center frequency between 750 to 2400 MHz. These devices can be used as dividers or combiners

with 50 watts C.W. per channel for failsafe applications, where typically one output is for example, the loss of one element in an antenna array. As a divider, it can handle up to 200 watts assuming a load VSWR of 1.2:1 or better.

Specifications DHP-¹

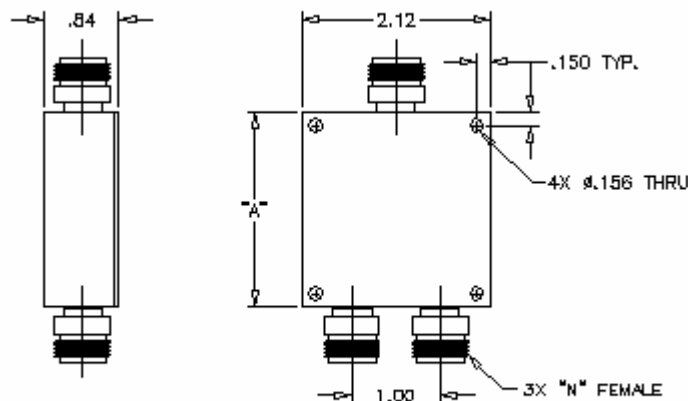
Model No.	Center frequency (Fc +/- 12%) (MHz)	VSWR (Max)	Insertion Loss (Max.)	Isolation (Min.)	Amplitude Balance	Phase Balance
DHP-	750 to 2400	1.3:1	.25 dB	20 dB	.1dB	2 deg

Power: 200 watts avg.
(As a divider with output terminated with a VSWR less than 1.2:1)
50 watts avg. (Failsafe)

Connectors: "N" female
Impedance: 50 ohms
Environment: MIL-E-5400, Class 1A

Example: DHP-1000, frequency range of 880-1120 MHz.

OUTLINE DRAWING



$$\text{Approximate length (A)} = \frac{1.966}{f_c(\text{GHz})} + 1.38$$

Specifications subject to change without notification.

Tolerances unless otherwise specified are .xx +/- .02. xxx +/- .005

Specials requiring closer tolerances, different frequency ranges, special connectors different materials, finishes, etc. can be furnished upon request.



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