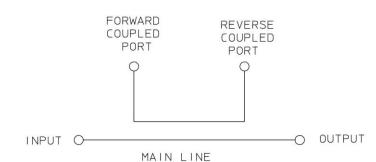
CRF-A Series - Bi-Directional Couplers

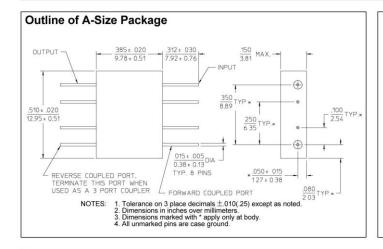
TECHNICAL FEATURE

FEATURES

- 5 to 1500 MHz
- 4-Port
- Multi-Octave
- · Minimal Size and Weight
- Hi-Rel Hermetic Flat pack



PRINCIPAL SPECIFICATIONS						
Frequency Range, MHz	Performance Bandwidth, MHz	¤ Coupling Value, dB, Nom.	Frequency Sensitivity, dB, Max.	Directivity dB, Min.	, *Insertion Loss, dB, Max.	VSWR, Max.
5 - 500	5 - 500	10 ±1.0	± 0.5	20	1.3	1.5:1
5 - 500	5 - 500 10 - 400	$\begin{array}{c} 20 \pm \! 1.0 \\ 20 \pm \! 1.0 \end{array}$	$^{\pm~0.75}_{\pm~0.5}$	18 20	1.0 0.6	1.5:1 1.3:1
100 - 1500	100 - 1500 500 - 1000	11 ±1.0 11 ±1.0	$^{\pm~0.5}_{\pm~0.5}$	18 20	1.5 1.2	1.7:1 1.5:1
100 - 1500	100 - 1500 500 - 1000	$\begin{array}{c} 20 \pm \! 1.0 \\ 20 \pm \! 1.0 \end{array}$	± 0.5 ± 0.5	18 20	1.5 1.2	1.7:1 1.5:1
	Range, MHz 5 - 500 5 - 500 100 - 1500	Frequency Range, MHz Performance Bandwidth, MHz 5 - 500 5 - 500 5 - 500 5 - 500 10 - 400 10 - 400 100 - 1500 100 - 1500 100 - 1500 100 - 1500	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$



GENERAL SPECIFICATIONS

OPTIONAL SPECIFICATIONS

Coupling Values: 5 to 30 dB
Frequency Bands: up to 2.5 GHz
Close tolerance Coupling: ± 0.5 dB
Three Port Equivalents: see CBF series

General Notes:

- 1. Merrimac directional couplers are available in a variety of packages to suit most applications. The CRF-A series utilizes the standard flatpack which is suitable for aerospace applications where size, weight and reliability are important considerations.
- 2. Applications of directional couplers include monitoring of incident and reflected power signal sampling for control loops and test signal injection devices in BITE. These Bi-Directional Couplers have both coupled ports available but they may be ordered with one coupled port terminated internally as in the CBF series of directional couplers.
- 3. Merrimac Couplers may be ordered with coupling values up to 30 dB covering selected frequency bands up to 65 GHz.
- 4. These units comply with MIL-C-15370 and can be supplied screened for compliance with additional specifications you specify for military and aerospace applications requiring higher reliability.

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