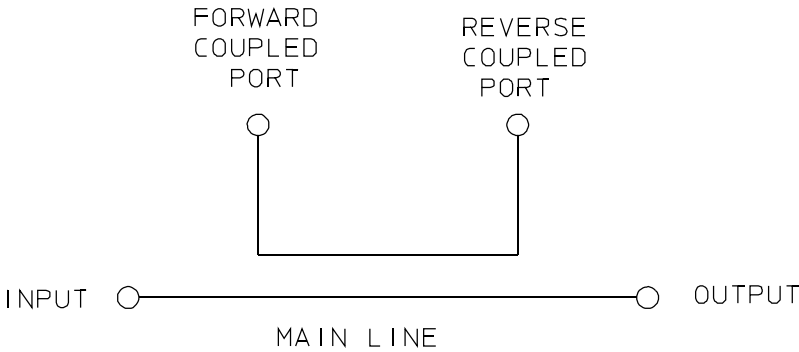


# CRP-N Series

# BI-DIRECTIONAL COUPLERS

5 to 1500 MHz / Wideband / Low Profile 0.2" Device / Meri-Pac / PC Mount for Auto-Insertion

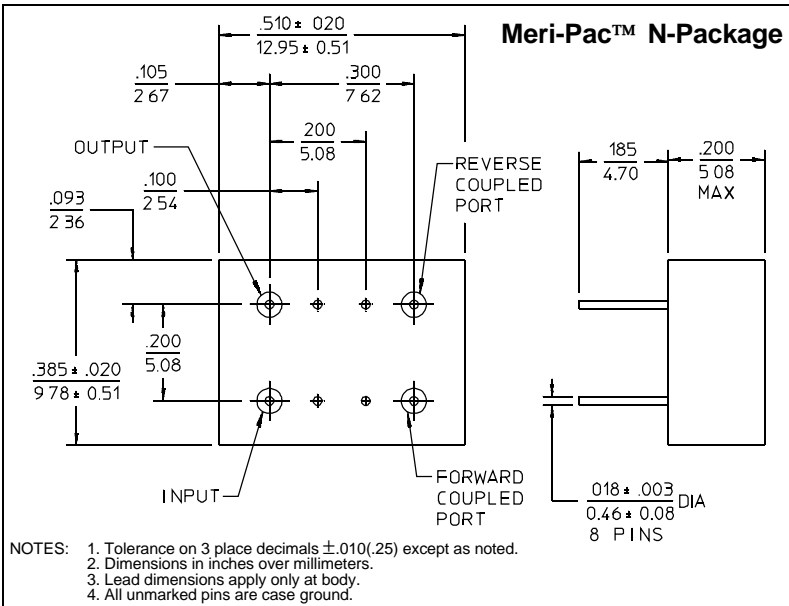


## PRINCIPAL SPECIFICATIONS

Model Number	Frequency Range, MHz	Performance Bandwidth, MHz	α Coupling Value, dB, Nom.	Frequency Sensitivity, dB, Max.	Directivity, dB, Min.	*Insertion Loss, dB, Max.	VSWR, Max.
CRP-10N-250	5 - 500	5 - 500	10 ± 1.0	± 0.5	20	1.3	1.5:1
CRP- 20N-250	5 - 500	5 - 500	20 ± 1.0	± 0.75	18	1.0	1.5:1
		10 - 400	20 ± 1.0	± 0.5	20	0.6	1.3:1
CRP-11N-1000	100 - 1500	100 - 1500	11 ± 1.0	± 0.5	18	1.5	1.7:1
		500 - 1000	11 ± 1.0	± 0.5	20	1.2	1.5:1
CRP- 20N-1000	100 - 1500	100 - 1500	20 ± 1.0	± 0.5	18	1.5	1.7:1
		500 - 1000	20 ± 1.0	± 0.5	20	1.2	1.5:1

α Coupling is Referenced to the Input

\* Insertion Loss excludes Coupling loss



## GENERAL SPECIFICATIONS

Impedance: 50 Ω nom.  
 CW Input: 1 W, max.  
 Weight: 0.1 oz (2.8 g) nom.  
 Operating Temperature: -55° to +85°C

## AVAILABLE OPTIONS

Coupling Values: 5 to 30 dB  
 Frequency Bands: up to 2.5 GHz  
 Close Tol. Coupling: ±0.5 dB  
 Uni-Directional Equiv: see CBP series

### General Notes:

- Merrimac directional couplers are available in a variety of packages to suit most applications. The CRP-N series utilizes the Meri-Pac package which is ideal for aerospace applications where size, weight and reliability are important considerations.
- Applications of directional couplers include monitoring 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 in the CBP series.
- Merrimac Couplers may be ordered with coupling values up to 30 dB and over frequency bands up to 65 GHz.
- These units comply with MIL-C-15370 and can be supplied screened for compliance with specifications you designate for military and aerospace applications requiring higher reliability.

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