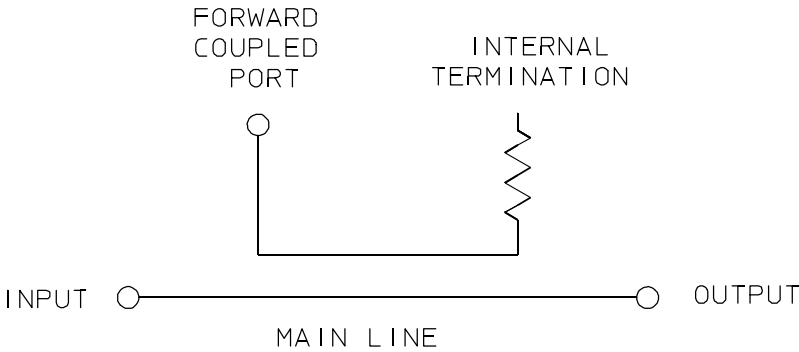


# CBG-B Series

# 3-PORT DIRECTIONAL COUPLERS

5 to 2000 MHz / 10 dB & 20 dB Models / Multi-Octave Units / Low Profile Surface Mount Package



## PRINCIPAL SPECIFICATIONS

Model Number	Frequency Range, MHz	Performance Bandwidth, MHz	± Coupling dB, Nom.	Frequency Sensitivity, dB, Max.	Directivity, dB, Min.	*Insertion Loss, dB, Max.	VSWR Max.
CBG-10B-375	5 - 750	5 - 750	10 ± 1.0	± 0.5	20	1.3	1.5:1
CBG-20B-375	5 - 750	5 - 750	20 ± 1.0	± 0.75	18	1.0	1.5:1
CBG-11B-1250	100 - 2000	10 - 400	20 ± 1.0	± 0.5	20	0.6	1.3:1
		100 - 2000	11 ± 1.0	± 0.5	15	1.5	1.7:1
CBG-20B-1250	100 - 2000	500 - 1000	11 ± 1.0	± 0.5	15	1.2	1.5:1
		100 - 2000	20 ± 1.0	± 0.5	15	1.5	1.7:1
		500 - 1000	20 ± 1.0	± 0.5	15	1.2	1.5:1

± Coupling is Referenced to the Input

\* Insertion Loss excludes Coupling Loss

### General Notes:

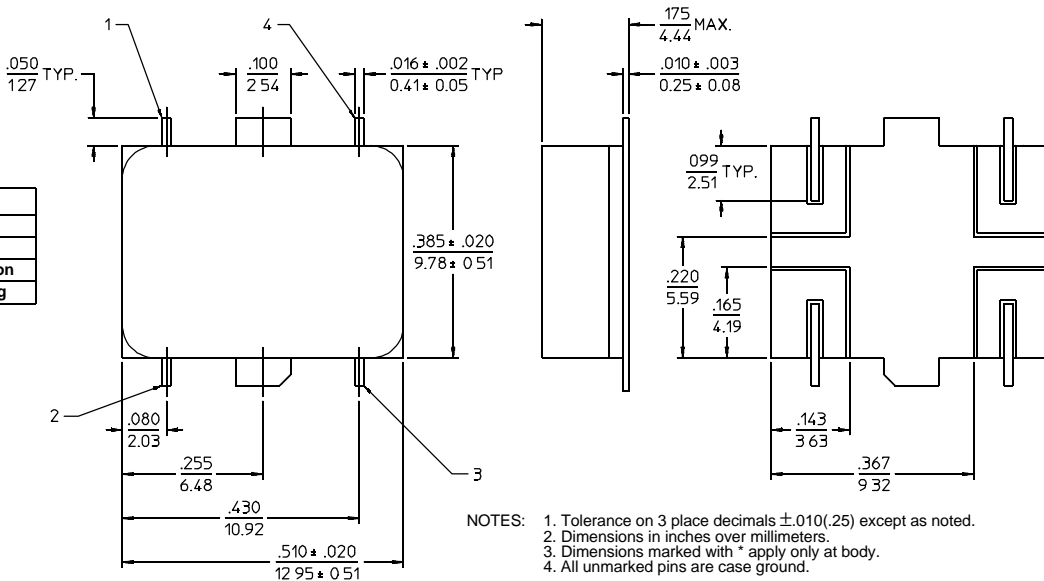
1. Directional couplers find applications in monitoring of incident and reflected power, sampling for control loops as well as signal injection devices in BITE systems.
2. These Directional Couplers are 3 port devices with one port internally terminated. They also may be used back-to-back as Dual Directional Couplers, or ordered with both coupled ports available, as Bi-Directional Couplers in the CRG-B series.
3. Optional performance characteristics for this series include frequencies up to 2.5 GHz, coupling from 5 to 30 dB, close tolerance coupling and more.

## GENERAL SPECIFICATIONS

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

### Surface Mount B-Package Outline

Pin	Function
1	Input
2	Output
3	Internal Termination
4	Forward Coupling



NOTES: 1. Tolerance on 3 place decimals ±.010(.25) except as noted.  
 2. Dimensions in inches over millimeters.  
 3. Dimensions marked with \* apply only at body.  
 4. All unmarked pins are case ground.

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