# **CBG-A S**ERIES, WIDEBAND DIRECTIONAL COUPLERS

## **TECHNICAL FEATURE**

## **FEATURES**

- 10 1000 MHz
- Low 0.2" Profile
- Minimal Size and Weight
- Surface Mount Package

PRINCIPAL SPECIFICATIONS				
Model Number	Coupling, dB		Frequency Sensitivity, dB	Bandwidth MHz
CBG-11A-500	) 11	±1	±1	10 to 1000
CBG-20A-500	20	±1	±1	10 to 1000
Coupling Value is referred to Input Port				

#### **General Notes:**

- 1. Directional couplers find applications in monitoring incident and reflected power, sampling for control loops as well as signal injection in BITE systems.
- 2. The 0.25" square surface mount package used in the CBG-A series has been designed for 50  $\Omega$  coplanar systems to optimize RF performance while still achieving the small size and low profile of surface mount devices. The Kovar input leads are designed to suit a variety of mounting situations simply by cutting them to the desired length.

## **GENERAL SPECIFICATIONS**

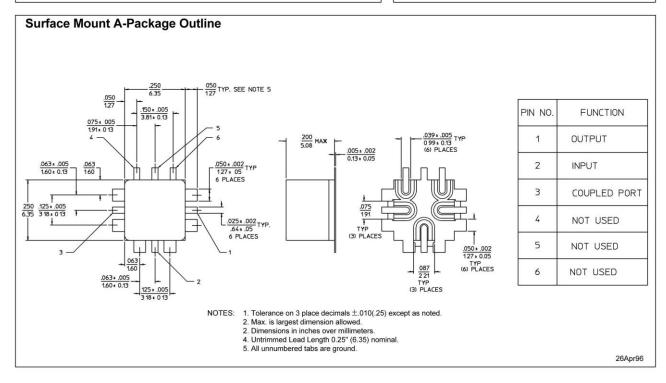
Insertion Loss (above Coupling Value):

10 to 500 MHz: 1 dB max. 500 to 1000 MHz: 1.5 dB max. Directivity:10 to 300 MHz: 20 dB min. 300 to 800 MHz: 15 dB min.

 $\begin{array}{ccc} 800 \text{ to } 1000 \text{ MHz:} & 13 \text{ dB min.} \\ \text{Impedance:} & 50 \ \Omega \text{ nom.} \\ \text{VSWR:} & 10 \text{ to } 500 \text{ MHz:} & 1.5:1 \text{ max.} \end{array}$ 

500 to 1000 MHz: 1.8:1 max.
CW Input: 1 W max.
Weight, Nominal: 0.1 oz. (2.8 g)

Operating Temperature : - 55° to +85°C



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