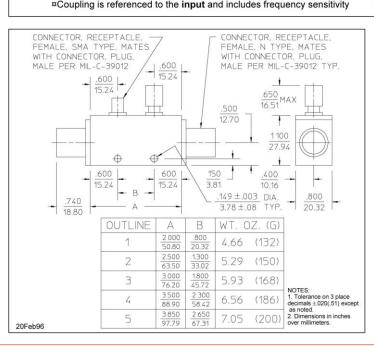
CBN & CCN SERIES, DIRECTIONAL COUPLERS

TECHNICAL FEATURE

FEATURES

- 1 to 12 GHz
- High power
- Octave & multi-octave models
- 30 or 35 dB coupling
- N-connector

PRINCIPAL SPECIFICATIONS							
Model Number	Frequency Range, GHz	Nominal Coupling,¤ dB	Frequency Sensitivity, dB, Max.	Directivity, dB, Min.	*Insertion Loss, dB, Max.	VSWR, Main Line, Max.	Outline Ref.
CBN-30M-1.5G CBN-30M-3G CBN-30M-4G	1.0 - 2.0 2.0 - 4.0 2.6 - 5.2	$\begin{array}{c} 30 \pm 1 \\ 30 \pm 1 \\ 30 \pm 1 \end{array}$	$^{\pm}$ 0.75 $^{\pm}$ 0.75 $^{\pm}$ 0.75	18 18 18	0.2 0.2 0.2	1.15:1 1.15:1 1.20:1	4 2 2
CBN-30M-6G CBN-30M-8G CBN-30M-9G	4.0 - 8.0 5.0 - 11.0 7.0 - 11.0	$\begin{array}{c} 30 \pm 1 \\ 30 \pm 1 \\ 30 \pm 1 \end{array}$	$\begin{array}{c} \pm \ 0.75 \\ \pm \ 0.50 \\ \pm \ 0.50 \end{array}$	18 15 16	0.2 0.2 0.2	1.30:1 1.30:1 1.30:1	1 1 1
CCN-30M-2G CCN-30M-3G CCN-30M-5G	1.0 - 4.0 1.5 - 4.5 2.0 - 8.0	$\begin{array}{c} 30 \pm 1 \\ 30 \pm 1 \\ 30 \pm 1 \end{array}$	${\scriptstyle\pm} 0.60 \\ {\scriptstyle\pm} 0.60 \\ {\scriptstyle\pm} 0.60$	15 18 16	0.2 0.2 0.2	1.15:1 1.20:1 1.30:1	5 4 3
CCN-35M-6G CCN-30M-8G	1.0 - 11.0 4.0 - 12.0	$\begin{array}{c} 35\pm1.5\\ 30\pm1 \end{array}$	± 1.50 ± 0.60	15 15	0.2 0.2	1.30:1 1.30:1	5 2



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Insertion Loss including Coupling "Loss"

GENERAL SPECIFICATIONS

Peak Power:	10 kW max.			
CW Input:	600 W max.			
Impedance:	50 Ω nom.			
Operating Temperature:	– 55° to +85°C			
Other Coupling Values:	Available			
Other Frequency Bands:	Available			

General Notes:

1. The octave band CBN series and multi-octave CCN series of high power Directional Couplers are designed to monitor signals with minimal perturbation to the main line. Each coupler uses air-line coupling technology for simple reliable operation. They are well suited to transmitter carrier power monitoring, leveling and VSWR protection circuits.

2. These units comply with MIL-C-15370 and can be supplied screened for compliance with additional specifications you designate for military and aerospace applications requiring higher reliability.



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