## **CWM-R Series - Directional Couplers**

#### **TECHNICAL FEATURE**

#### **FEATURES**

- 0.5 to 26.5 GHz
- Ultra-Broadband
- 10, 16, 20 dB Coupling
- High-Performance Stripline
- 25 W
- **SMA**

		PRINCIPAL SPECIFICATIONS						
Model Number	Frequency Range, GHz	Coupling,¤ dB, Nom.	Frequency Sensitivity, dB, Max.	Directivity, dB, Min.	*Insertion Loss, dB, Max.	VSW Main Line	/R Max., Coupled Line	Outline Ref. Dim.
CWM-20R-9.2G	0.5 - 18.0	20 ±1.0	±1.0	14	1.3	1.40:1	1.50:1	1
CWM-10R-10.2G	0.5 - 20.0	10 ±1.0	±1.0	14	1.3	1.35:1	1.35:1	1
CWM-10R-13.2G	0.5 - 26.5	10 ±1.0	±1.0	12	2.0	1.50:1	1.50:1	1
CWM-10R-16G	6.0 - 26.5	10 ±1.0	±0.5	14	1.0	1.45:1	1.45:1	3
¤Coupling is ref	erenced to the <b>out</b>	put		* Insertion	Loss <b>above</b> Co	oupling Los	ss	

## **POWER SPECIFICATIONS**

Coupled "Loss": 10 dB units: 0.46 dB 16 dB units: 0.08 dB 20 dB units: 0.044 dB 30 dB units: 0.004 dB Peak Power: 3 kW max. Input Power (Forward): 25 Watts max. Reflected Power: 10/16 dB units: 5 Watts max. 20/30 dB units: 50 Watts max.

## GENERAL SPECIFICATIONS

Impedance:  $50 \Omega$  nom. - 55° to +85°C Operating Temp:

Available Options:

Connectors: TNC & N type available Frequencies: Available to 65 GHz. Higher Power: With N connectors Coupling: 30 dB available

#### **General Notes:**

- 1. The CWM-R series of directional couplers consists of three port devices utilizing stripline technology in a connectorized package. Each unit is a multi-section quarter wave coupler designed to cover a very broad band of frequencies. They are ideally suited for monitoring forward or reflected power in EW and similar wideband systems with minimal perturbation to the main line signal.
- 2. Similar directional couplers may be custom ordered with coupling values up to 35 dB and covering frequency bands up to 26.5 GHz.
- 3. These units comply with MIL-C-15370 and may be supplied screened for compliance with additional specifications you designate for military and aerospace applications requiring the highest reliability. 22Feb96

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## **PACKAGE OUTLINE**



