0.5 to 26.5 GHz / Ultra-Broadband / 10, 16, 20 dB Coupling / High-Perf. 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 I 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 CWM-16R-10.2G	0.5 - 20.0	10 ±1.0 16 ±1.0	±1.0	14	1.3	1.35:1	1.35:1	1	
CWM-10R-10.8G CWM-16R-10.8G	1.7 - 20.0	10 ±1.0 16 ±1.0	±0.55	15	1.2 0.9	1.35:1	1.45:1	2	
CWM-10R-13.2G CWM-16R-13.2G	0.5 - 26.5	10 ±1.0 16 ±1.0	±1.0	12	2.0 1.6	1.50:1	1.50:1	1	
CWM-10R-13.8G CWM-16R-13.8G	1.7 - 26.5	10 ±1.0 16 ±1.0	±0.6	14	1.5 1.0	1.40:1 1.35:1	1.50:1 1.45:1	2	
CWM-10R-16G CWM-20R-16G	6.0 - 26.5	10 ±1.0 20 ±1.0	±0.5	14	1.0 0.7	1.45:1	1.45:1	3	
CWM-10R-22G CWM-20R-22G	18.0 - 26.5	10 ±1.0 20 ±1.0	±0.5	14	1.0 0.7	1.45:1	1.45:1	3	
¤Coupling is referenced to the <b>output</b>				* Insertion	* Insertion Loss <b>above</b> Coupling Loss				

## **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**

50  $\Omega$  nom. Impedance:

Operating Temp: - 55° to +85°C

**Available Options:** 

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

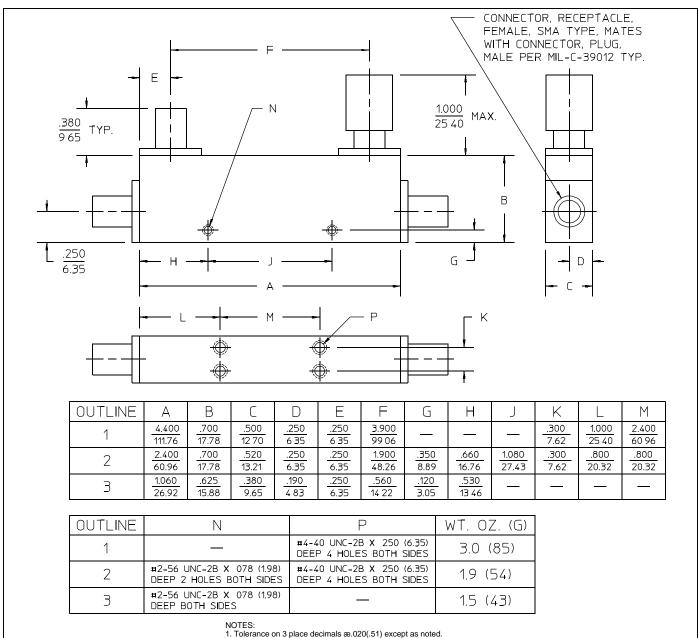
## **General Notes:**

- 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.

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500 MHz to 26.5 GHz / Ultra-Broadband / 10, 16, 20 dB Coupling / High-Perf. Stripline / 25 W / SMA





Dimensions in inches over mm
Weights are nominal.

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