CWM-M-G Series - Directional Couplers

TECHNICAL FEATURE

FEATURES

- 1.0 to 18 GHz
- Ultra-Broadband
- 6, 10, 16, 20 dB Coupling
- Low-Cost Stripline
- 50W
- **SMA**

PRINCIPAL SPECIFICATIONS									
Model Number	Frequency Range, GHz	Nominal §Coupling, dB, (ref input)	Frequency Sensitivity, dB, Nom.		ctivity, , Min. >12.4 GH	^t Insertion Loss, dB, z Max.	VSW Main Line	/R max. Coupled Line	Outline Ref.
CWM-10M-9.5G	1.0 - 18.0	10* ±1.0	±0.50	15	12	0.90	1.40:1	1.50:1	11
CWM-20M-9.5G		20* ±1.0	±0.50	15	12	0.85	1.40:1	1.50:1	12
CWM-6M-10G CWM-10M-10G CWM-16M-10G CWM-20M-10G	2.0 - 18.0	6* ±1.0 10 ±1.0 16 ±1.0 20 ±1.0	± 0.50 ± 0.50 ± 0.50 ± 0.50	15 15 15 15	12 12 12 12	0.90 0.65# 0.80 0.80	1.35:1 1.35:1 1.35:1 1.35:1	1.50:1 1.50:1 1.40:1 1.40:1	13 13 14 14
	* Coupling is referenced to the output. Insertion Loss above Coupling Loss			S Coupling includes Frequency Sensit #@ 85C Typical, 0.8 dB max.			icy Sensitiv	rity	

POWER SPECIFICATIONS

10 dB units:

20 dB units:

Coupled Power "Loss":

6 dB units: 1.25 dB 10 dB units: 0.46 dB 20 dB units: 0.044 dB 30 dB units: 0.004 dB 3 kW max. CW Input Power (Forward): CWM-10M-2.3G: 50 Watts max. All others: 25 Watts max. CW Reflected Power: 6 dB units: 2 Watts max.

GENERAL SPECIFICATIONS

Impedance: $50~\Omega$ nom. Operating Temp: - 55° to +85°C SMA Connectors: Female, to meet interface requirements of MIL-C-39012 TNC and N type Other connectors: available. Check with factory. Other frequencies: Optional

Peak Power:

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5 Watts max.

50 Watts max.



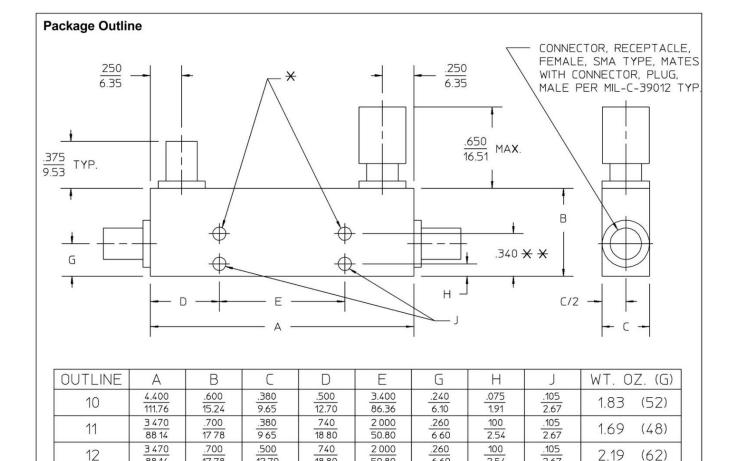
General Notes:

1. The CWM-M-G series of directional couplers are miniature 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. A variety of performance and frequency coverage options are available.

^{2.} These units comply with MIL-C-15370 and may supplied screened for compliance with additional specifications you designate for military and aerospace applications requiring the highest reliability.

CWM-M-G SERIES - DIRECTIONAL COUPLERS

PACKAGE OUTLINE



* 2-56NC-2B X .120 (3.05) DEEP ** FOR OUTLINE 12 & 14 ONLY

88 14

2 100 53.34

2.090

53.09

1.360

34.54

1.360

3454

13

14

15

16

17 78

.700

17.78

.700

17.78

.600

15.24

.660

16 76

12 70

380

9.65

.500

12.70

.380

9.65

.380

18 80

550

13.97

.550

13.97

.430

10.92

.430

10 92

50.80

1000

25.40

1.000

25.40

.500

12.70

.500

12.70

6 60

.260

6.60

.260

6.60

.260

6.60

.260

2.54

100

2.54

.100

2.54

.090

2.29

.090

2.29

NOTES: 1. Tolerance on 3 place decimals \pm .020(.51) except as noted. 2. Dimensions in inches over millimeters.

2.67

.105 2.67

.105

2.67

.105

2.67

.105

2.67

1.20

1.55

.85

.88

(34)

(44)

(24)

(25)

3. Weights are nominal on all outlines.

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