

**PRINCIPAL SPECIFICATIONS**

Model Number	Frequency Range, GHz	Coupling, [▢] dB, Nom.	Frequency Sensitivity, dB, Max.	Directivity, dB, Min.	*Insertion Loss, dB, Max.	VSWR Max., Main Line	VSWR 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-16R-10.2G		16 ±1.0						
CWM-10R-10.8G	1.7 - 20.0	10 ±1.0	±0.55	15	1.2	1.35:1	1.45:1	2
CWM-16R-10.8G		16 ±1.0			0.9			
CWM-10R-13.2G	0.5 - 26.5	10 ±1.0	±1.0	12	2.0	1.50:1	1.50:1	1
CWM-16R-13.2G		16 ±1.0			1.6			
CWM-10R-13.8G	1.7 - 26.5	10 ±1.0	±0.6	14	1.5	1.40:1	1.50:1	2
CWM-16R-13.8G		16 ±1.0			1.0	1.35:1	1.45:1	
CWM-10R-16G	6.0 - 26.5	10 ±1.0	±0.5	14	1.0	1.45:1	1.45:1	3
CWM-20R-16G		20 ±1.0			0.7			
CWM-10R-22G	18.0 - 26.5	10 ±1.0	±0.5	14	1.0	1.45:1	1.45:1	3
CWM-20R-22G		20 ±1.0			0.7			

▢Coupling is referenced to the **output*** Insertion Loss **above** 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

Impedance:	50 Ω nom.
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

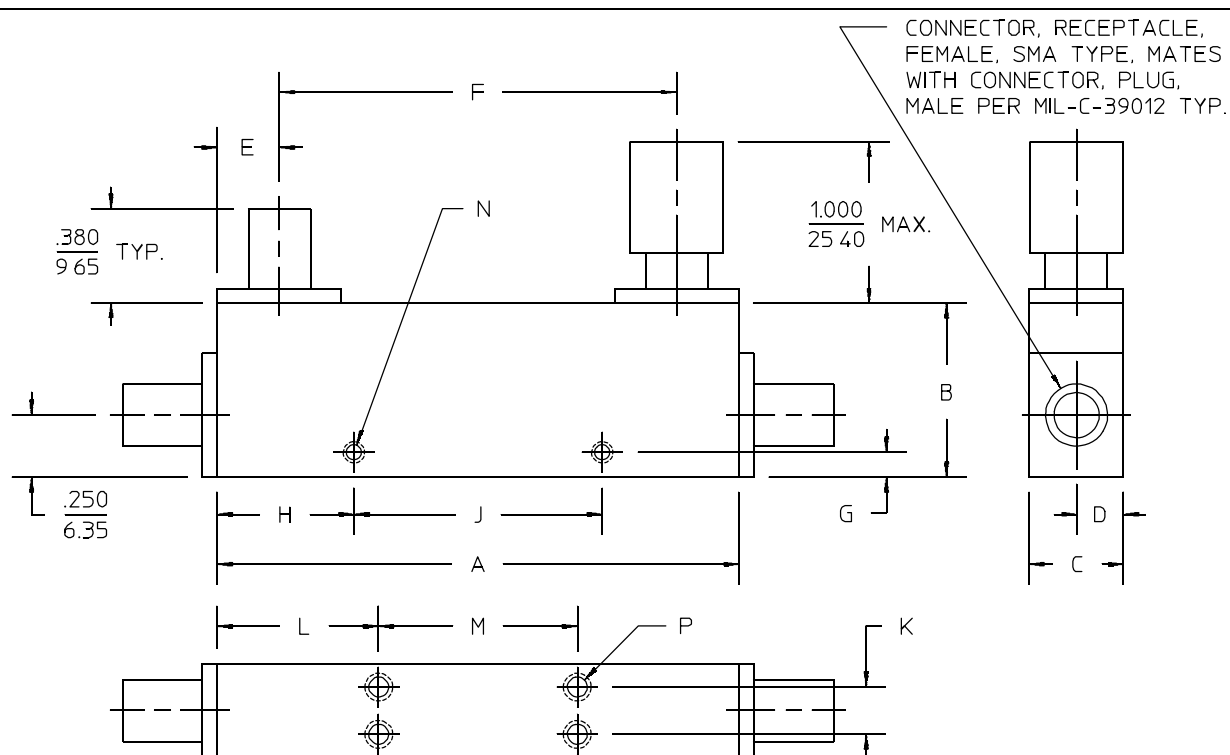
General Notes:

- 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.
- Similar directional couplers may be custom ordered with coupling values up to 35 dB and covering frequency bands up to 26.5 GHz.
- 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

DIRECTIONAL COUPLERS

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



OUTLINE	A	B	C	D	E	F	G	H	J	K	L	M
1	$\frac{4.400}{111.76}$	$\frac{.700}{17.78}$	$\frac{.500}{12\ 70}$	$\frac{.250}{6\ 35}$	$\frac{.250}{6\ 35}$	$\frac{3.900}{99\ 06}$	—	—	—	$\frac{.300}{7.62}$	$\frac{1.000}{25\ 40}$	$\frac{2.400}{60\ 96}$
2	$\frac{2.400}{60.96}$	$\frac{.700}{17.78}$	$\frac{.520}{13.21}$	$\frac{.250}{6.35}$	$\frac{.250}{6.35}$	$\frac{1.900}{48.26}$	$\frac{.350}{8.89}$	$\frac{.660}{16.76}$	$\frac{1.080}{27.43}$	$\frac{.300}{7.62}$	$\frac{.800}{20.32}$	$\frac{.800}{20.32}$
3	$\frac{1.060}{26.92}$	$\frac{.625}{15.88}$	$\frac{.380}{9.65}$	$\frac{.190}{4\ 83}$	$\frac{.250}{6.35}$	$\frac{.560}{14\ 22}$	$\frac{.120}{3.05}$	$\frac{.530}{13\ 46}$	—	—	—	—

OUTLINE	N	P	WT. OZ. (G)
1	—	■4-40 UNC-2B X 250 (6.35) DEEP 4 HOLES BOTH SIDES	3.0 (85)
2	■2-56 UNC-2B X .078 (1.98) DEEP 2 HOLES BOTH SIDES	■4-40 UNC-2B X 250 (6.35) DEEP 4 HOLES BOTH SIDES	1.9 (54)
3	■2-56 UNC-2B X .078 (1.98) DEEP BOTH SIDES	—	1.5 (43)

NOTES:

- NOTES:
1. Tolerance on 3 place decimals $\pm .020(.51)$ except as noted.
 2. Dimensions in inches over mm
 3. Weights are nominal.

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