

# CDM-M-G SERIES - DUAL DIRECTIONAL COUPLERS

## TECHNICAL FEATURE

### FEATURES

- 500 MHz to 18 GHz
- Stripline Octave Bandwidths
- 10, 20, 30 dB Coupling
- 50 W
- Low Cost
- SMA

### PRINCIPAL SPECIFICATIONS

Model Number	Frequency Range, GHz	Nominal Coupling, <sup>⊠</sup> dB	Frequency Sensitivity, dB, Max.	Directivity dB, Min.	*Insertion Loss, dB, Max.	VSWR, Max.		Outline Ref.
						Main Line	Coupled Lines	
CDM-20M-3G		20 ±1.25			0.50			5
CDM-20M-6G		20 ±1.25			0.50			7
CDM-10M-10G	7.0 - 12.4	10 ±1.25	± 0.6	16	1.90	1.35:1	1.30:1	7
CDM-20M-10G		20 ±1.25			0.70			7
CDM-30M-10G		30 ±1.25			0.60			8
CDM-20M-12G		20 ±1.25			1.00			9

<sup>⊠</sup>Coupling is referenced to the **input** and includes frequency sensitivity

\* Insertion Loss **including** Coupling Loss

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### POWER SPECIFICATIONS

Coupled Power "Loss":		
	10 dB section:	0.46 dB
	20 dB section:	0.044 dB
	30 dB section:	0.004 dB
Peak Power:	CDM-M-12G:	2 kW max.
	CDM-M-15G:	1 kW max.
	All Others:	3 kW max.
Input Power (Forward):		50 Watts max.

### GENERAL SPECIFICATIONS

Impedance:	50 Ω nom.
Operating Temperature:	- 55° to +85°C
SMA Connectors:	Female, to meet the interface reqts. of MIL-C-39012.
N type connectors:	see CDN-M series
Other frequency bands:	Available option

