

CYM-13R-9G

DIRECTIONAL COUPLER

0.17 to 18 GHz / Ultra-Broadband / Very High Directivity Typically >20 dB / Stripline / 25 W / SMA



PRINCIPAL SPECIFICATIONS

Model Number	Frequency Range, GHz	Operating Frequency, GHz	Coupling dB, Nom., ^a	Frequency Sensitivity, dB, Max.	Directivity, dB,		*Insertion Loss, dB, Max.	VSWR, Max.,		Weight, oz.(g) Nom.
					Typ.	Min.		Main Line	Coupled Line	
CYM-13R-9G	0.17-18	0.17 - 0.4	15.5 ±3.0	n/a	24	20	1.0	1.20:1	1.30:1	4.4(125)
		0.4 - 8.0	13 ±1.0	±1.0	24	20	1.6	1.20:1	1.30:1	
		8.0 - 18.0	13 ±1.0	±1.0	20	15	1.6	1.50:1	1.50:1	

^aCoupling is referenced to the output

* Insertion Loss **above** Coupling Loss

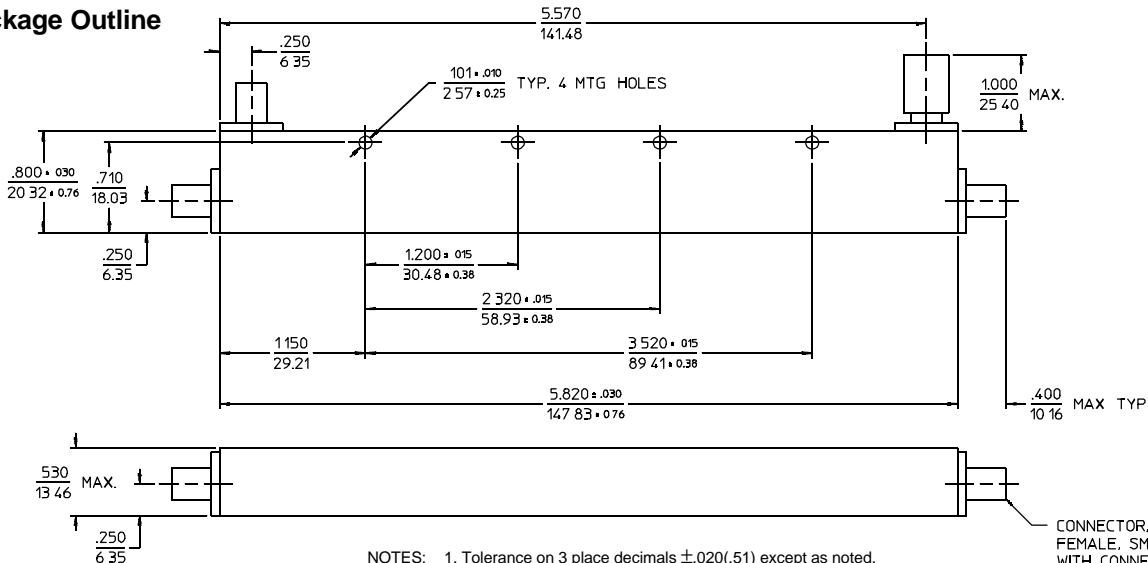
General Notes:

1. The CYM-R series of directional couplers consists of three port connectorized devices utilizing special stripline technology for very high directivity over very wide bandwidths.
2. Although the CYM-13R-9G is fully specified down to 170 MHz, it is usable down to 100 MHz with a higher coupling. Units covering up to 20 GHz are available on special order.
3. This series is ideally suited for precise measurement of forward or reflected power in general purpose ATE systems as well as in EW and similar wideband systems where high directivity is essential.
4. These units comply with MIL-C-15370 and can be supplied screened for compliance with additional specifications you designate for military and aerospace applications requiring the highest reliability.

GENERAL SPECIFICATIONS

Impedance: 50 Ω nom.
 Coupled "Loss" at 13 dB: 0.22 dB
 Peak Power: 3 kW max.
 CW Input Power (Forward): 25 Watts max.
 CW Reflected Power: 5 Watts max.
 Operating Temperature: - 55° to +85°C

Package Outline



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

CONNECTOR, RECEPTACLE, FEMALE, SMA TYPE, MATES WITH CONNECTOR, PLUG, MALE PER MIL-C-39012 TYP. 3 PLACES

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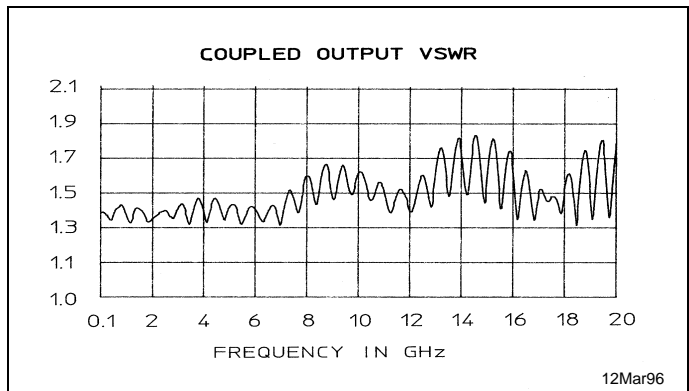
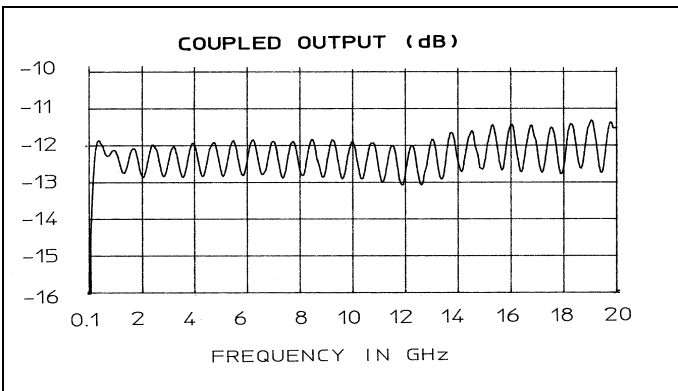
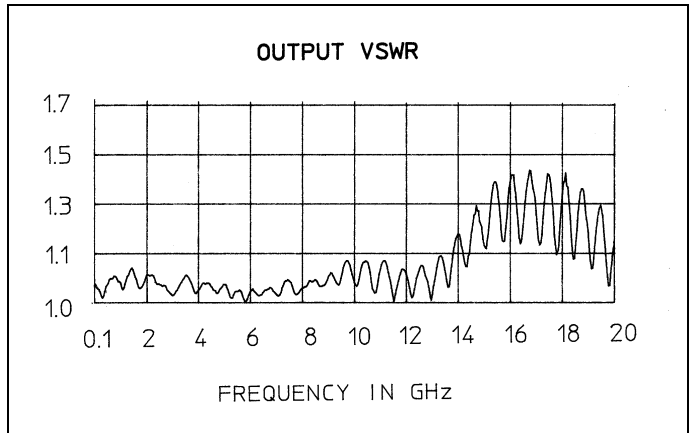
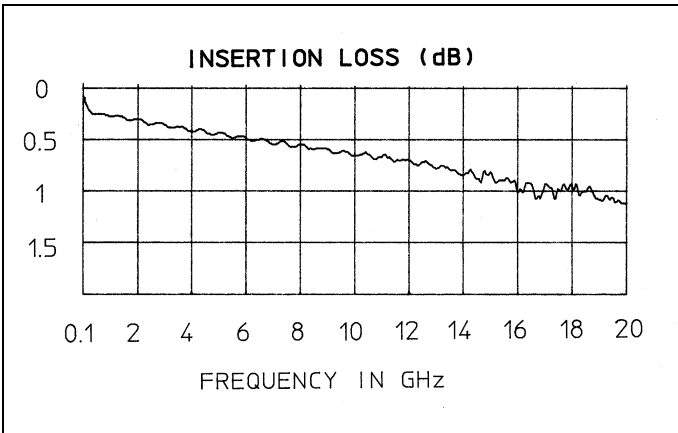
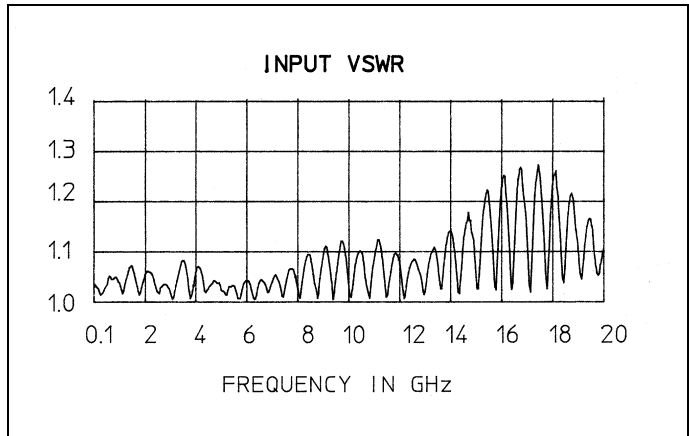
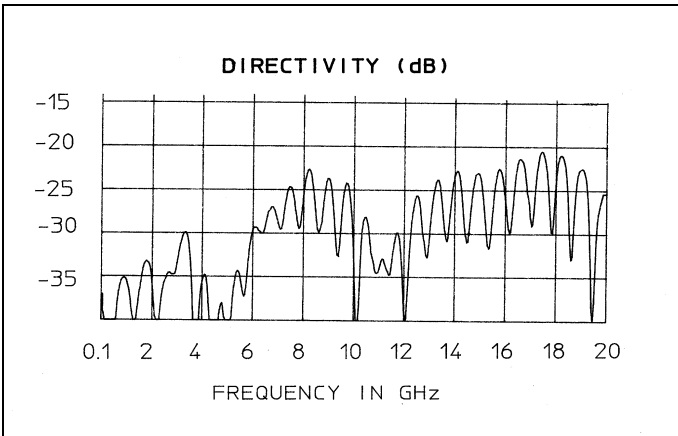
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Typical CYM-13R-9G Characteristics



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