

Coaxial

Directional Coupler

50Ω

5 to 2000 MHz

NEW!
ZX30-17-5


CASE STYLE: FL905
 CONNECTORS: SMA
 PRICE: \$29.95 ea. QTY (1-24)

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C

Coaxial Connections

PORT	db
INPUT	1
OUTPUT	2
COUPLED	3

Features

- very flat coupling
- very broad, multi-octave
- all welded construction
- protected by U.S. Patent 6140887 & 6784531

Applications

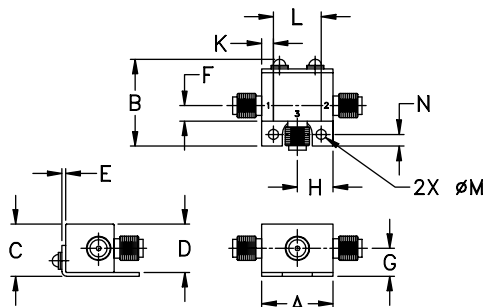
- cable tv
- instrumentation
- communication receivers & transmitters
- gps

Directional Coupler Electrical Specifications (T_{AMB} = 25°C)

FREQ. RANGE (MHz)	COUPLING (dB)		MAINLINE LOSS ¹ (dB)			DIRECTIVITY (dB)			VSWR (:1)	POWER INPUT, W	
	Nom.	Typ. Flatness	L Typ.	M Max.	U Max.	L Typ. Min.	M Typ. Min.	U Typ. Min.		L Max.	MU Max.
5-1000	16.8±0.7	±0.4		0.7	1.1		16	14	1.30	0.5	1.0
1000-1500	17.5±0.9	±0.4		0.85	1.4		18	12	1.30	0.5	1.0
1500-2000	18.5±1.0	±0.3		1.1	1.7		14	—	1.30	0.5	1.0

L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]
 1. Mainline loss includes theoretical power loss at coupled port.

Outline Drawing



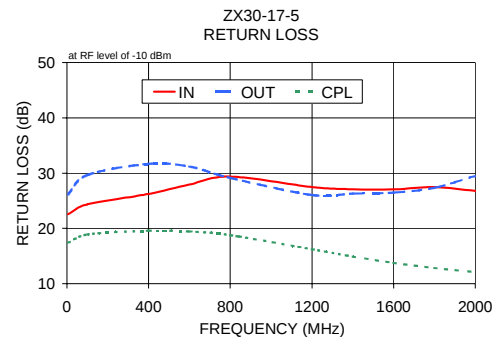
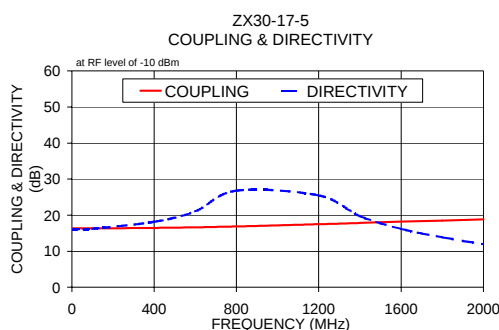
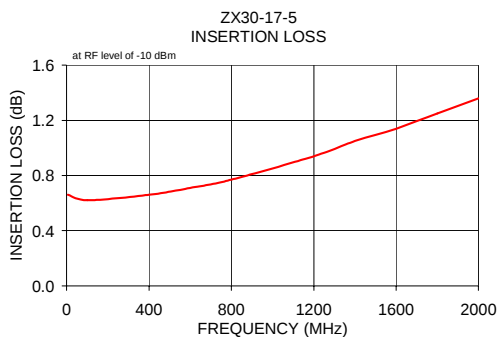
Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.74	.90	.54	.50	.04	.16	.29
18.80	22.86	13.72	12.70	1.02	4.06	7.37

H	J	K	L	M	N	wt
.37	--	.122	.496	.106	.122	grams
9.40	--	3.10	12.60	2.69	3.10	20.0

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
5.00	0.66	16.40	16.11	22.56	26.16	17.43
100.00	0.62	16.33	16.24	24.38	29.66	18.91
400.00	0.66	16.48	18.15	26.25	31.68	19.58
600.00	0.71	16.64	21.05	27.95	31.19	19.46
800.00	0.77	16.87	26.80	29.39	29.15	18.78
1200.00	0.94	17.49	25.48	27.49	26.06	16.25
1400.00	1.05	17.83	19.73	27.10	26.30	14.93
1600.00	1.14	18.17	16.19	27.06	26.48	13.79
1800.00	1.25	18.51	13.87	27.50	27.35	12.86
2000.00	1.36	18.83	11.92	26.79	29.50	12.12



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P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

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