

Coaxial

Directional Coupler

50Ω 13dB 800 to 2000 MHz

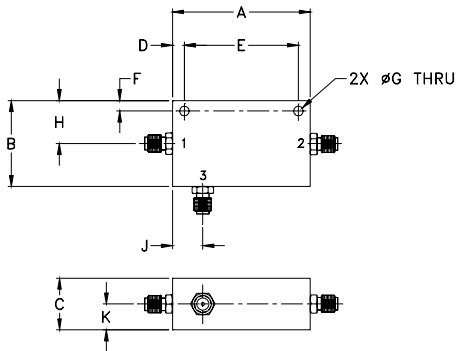
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input	3W Max.

Pin Connections

INPUT	1
OUTPUT	2
COUPLED	3

Outline Drawing



Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H
2.00	1.25	.75	.17	1.656	.15	.140	.63
50.80	31.75	19.05	4.32	42.06	3.81	3.56	16.00

J	K	wt.
.44	.38	grams
11.18	9.65	57

Features

- excellent insertion loss, 0.8 dB typ.
- very flat coupling, ± 0.2 dB typ.

Applications

- cellular
- PCS
- ISM



CASE STYLE: FM587

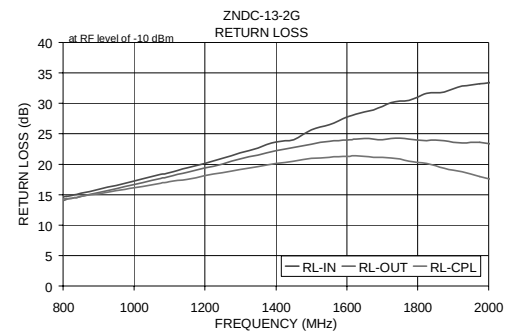
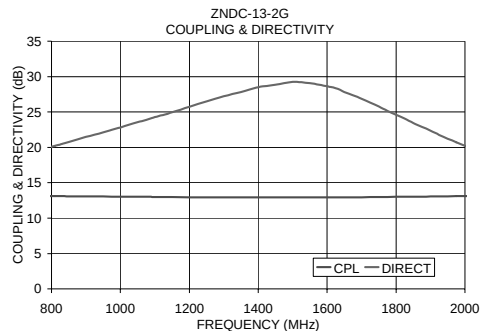
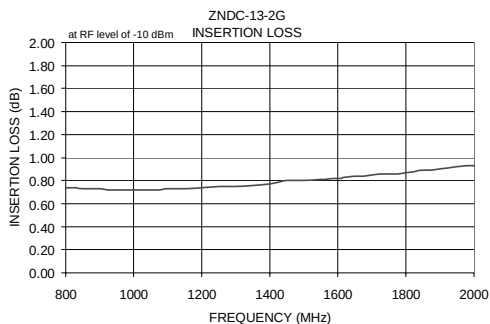
PRICE: \$49.95 ea. QTY (1-9)

Directional Coupler Electrical Specifications

FREQ. RANGE (MHz)	COUPLING (dB)		MAINLINE LOSS (dB)		DIRECTIVITY (dB)		VSWR (:1)	POWER INPUT (W)
	Nom.	Max. Flatness	Typ. Max.		Typ. Min.		Typ.	
800-2000								
800-1000	13 $\pm$ 0.5	$\pm$ 0.3	0.8	1.1	20	17	1.4	3
1000-1700	13 $\pm$ 0.5	$\pm$ 0.3	0.8	1.3	20	18	1.15	3
1700-2000	13 $\pm$ 0.5	$\pm$ 0.35	0.8	1.3	25	14	1.2	3

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
800.00	0.74	13.12	20.06	14.58	14.10	14.22
900.00	0.73	13.07	21.47	15.88	15.36	15.17
1000.00	0.72	13.03	22.82	17.25	16.66	16.13
1100.00	0.73	12.99	24.27	18.63	18.00	17.12
1300.00	0.75	12.94	27.24	21.86	20.85	19.17
1500.00	0.80	12.93	29.25	25.65	23.33	20.92
1700.00	0.85	12.96	26.89	29.51	24.07	21.11
1800.00	0.87	13.00	24.62	31.04	23.92	20.31
1900.00	0.90	13.05	22.37	32.35	23.61	19.06
2000.00	0.93	13.12	20.21	33.35	23.36	17.61



Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

ISO 9001 CERTIFIED

INTERNET <http://www.minicircuits.com>

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

 REV. A
 M92341
 ED-10208/1
 ZNDC-13-2G
 WZ/TD/CP
 040510