

Coaxial Directional Coupler

50Ω 23dB 800 to 2000 MHz

ZNDC-23-2G+ ZNDC-23-2G



CASE STYLE: FM587

Connectors	Model	Price	Qty.
SMA	ZNDC-23-2G-S(+)	\$49.95	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Maximum Ratings

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

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

INPUT	1
OUTPUT	2
COUPLED	3

Features

- excellent mainline loss, 0.5 dB typ.
- excellent VSWR, 1.2:1 typ.
- useable over 800-2000 MHz
- very flat coupling ± 0.3 dB typ.

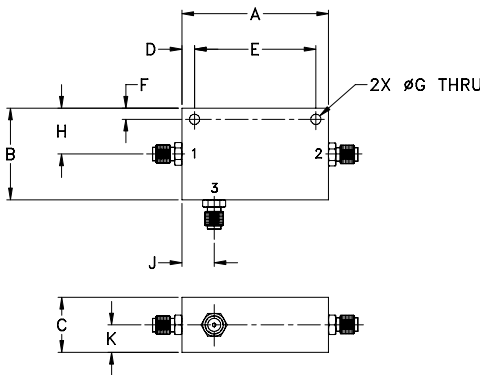
Applications

- cellular
- PCS
- ISM

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.		
800-2000								
800-1000	23.2 \pm 0.5	\pm 0.4	0.3	0.6	25	17	1.2	3
1000-1700	23.0 \pm 0.5	\pm 0.4	0.5	0.9	22	17	1.2	3
1700-2000	22.7 \pm 0.5	\pm 0.4	0.6	1.1	20	14	1.2	3

Outline Drawing

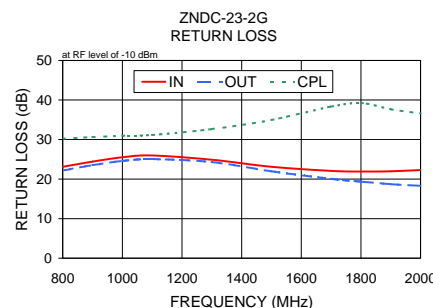
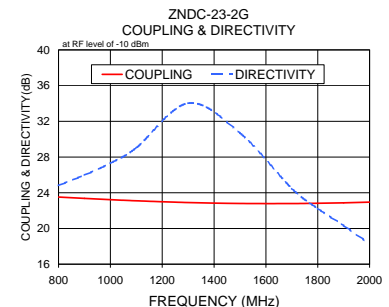
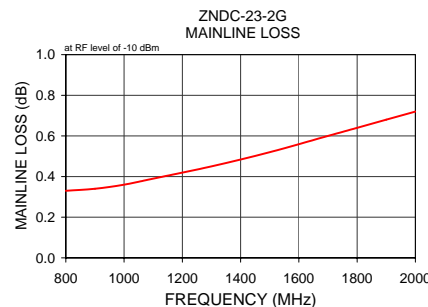


Outline Dimensions (inch/mm)

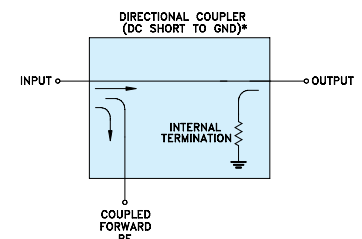
A	B	C	D	E	F			
2.00	1.25	0.75	0.17	1.656	0.15			
50.80	31.75	19.05	4.32	42.06	3.81			
G	H	J	K			wt		
0.14	0.63	0.44	0.38			grams		
3.56	16.00	11.18	9.65			57.0		

Typical Performance Data

Frequency (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
800.00	0.33	23.52	24.81	23.11	22.15	30.23
900.00	0.34	23.37	25.98	24.42	23.52	30.61
1000.00	0.36	23.23	27.31	25.52	24.59	30.96
1100.00	0.39	23.10	29.03	25.98	25.04	31.16
1300.00	0.45	22.90	34.03	24.89	24.32	32.65
1500.00	0.52	22.80	30.69	23.11	21.98	34.94
1700.00	0.60	22.79	24.47	22.07	20.06	38.33
1800.00	0.64	22.82	22.23	21.91	19.36	39.22
1900.00	0.68	22.87	20.33	21.98	18.71	37.67
2000.00	0.72	22.95	18.29	22.29	18.30	36.58



Electrical Schematic



* ELECTRICAL SCHEMATIC IS FOR DIRECTIONAL COUPLER WITH INTERNAL TRANSFORMER(S) THAT ROUTES DC FROM RF PORTS TO GROUND.

For detailed performance specs & shopping online see web site

Mini-Circuits
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