Coaxial

Directional Coupler

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

50Ω 23dB 800 to 2000 MHz

CASE STYLE: FM587

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

+RoHS Compliant
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

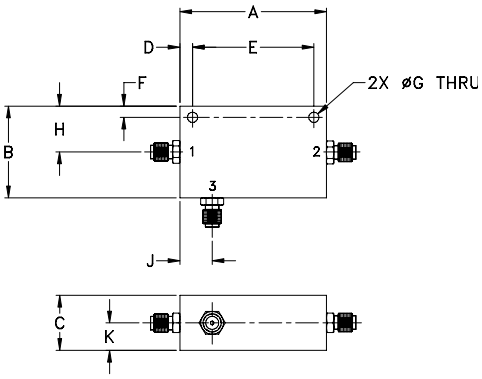
Features

- 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

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

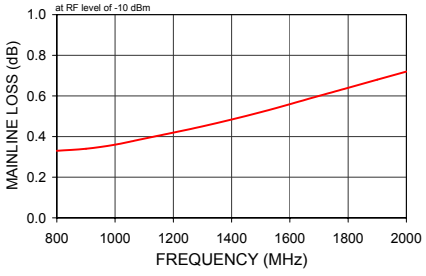
Directional Coupler Electrical Specifications

FREQ. RANGE (MHz)	COUPLING (dB)		MAINLINE LOSS (dB)		DIRECTIVITY (dB)		VSWR (:1)	POWER INPUT (W)
f_L-f_U	Nom.	Max. Flatness	Typ.	Max.	Typ.	Min.	Typ.	Max.
800-2000								
800-1000	23.2±0.5	±0.4	0.3	0.6	25	17	1.2	3
1000-1700	23.0±0.5	±0.4	0.5	0.9	22	17	1.2	3
1700-2000	22.7±0.5	±0.4	0.6	1.1	20	14	1.2	3

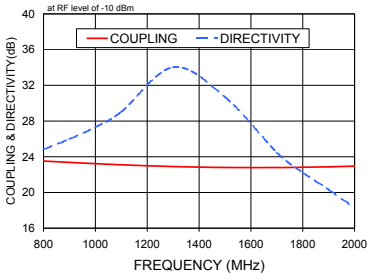
Typical Performance Data

Frequency (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB) In	Return Loss (dB) Out	Return Loss (dB) 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

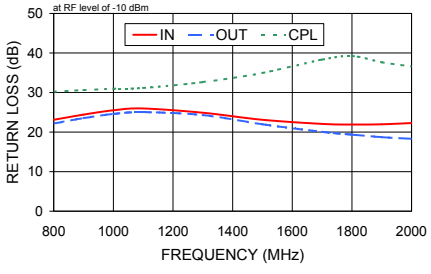
ZNDC-23-2G
MAINLINE LOSS



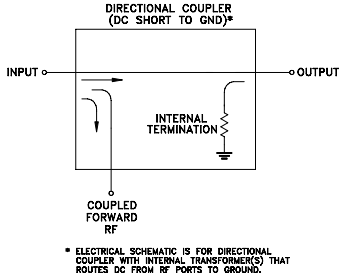
ZNDC-23-2G
COUPLING & DIRECTIVITY



ZNDC-23-2G
RETURN LOSS



Electrical Schematic



Notes

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