

# Coaxial Directional Coupler

50Ω 15dB 800 to 2000 MHz

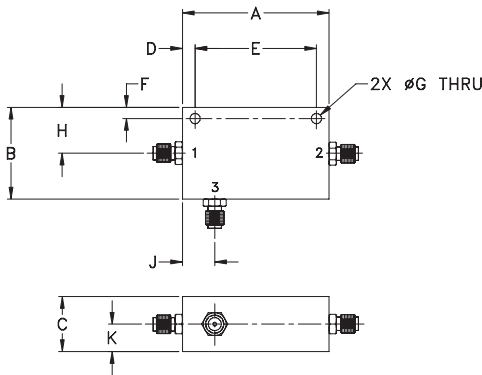
## Maximum Ratings

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

## Coaxial Connections

INPUT	1
OUTPUT	2
COUPLED	3

## Outline Drawing



## Outline Dimensions (inch/mm)

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

## Features

- excellent mainline loss, 0.7 dB typ.
- very flat coupling  $\pm 0.2$  dB typ.

## Applications

- cellular
- PCS
- ISM

# ZNDC-15-2G+ ZNDC-15-2G



CASE STYLE: FM587

Connectors	Model	Price	Qty.
SMA	ZNDC-15-2G-S(+)	\$49.95	(1-9)

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

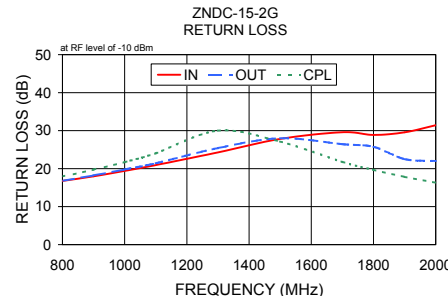
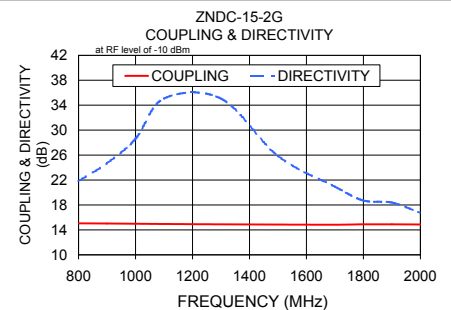
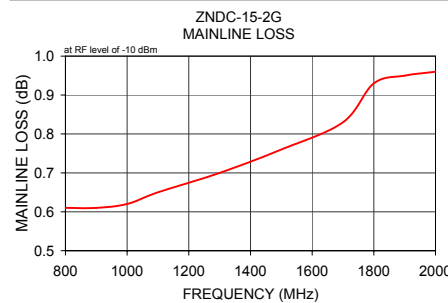
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

## Directional Coupler Electrical Specifications

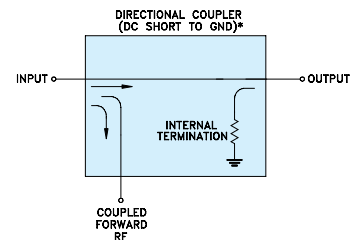
FREQ. RANGE (MHz)	COUPLING (dB)		MAINLINE LOSS (dB)		DIRECTIVITY (dB)		VSWR (:1)	POWER INPUT (W)
	Nom.	Max. Flatness	Typ.	Max.	Typ.	Min.		
800-2000								
800-1000	15.2±0.5	±0.3	0.6	0.9	25	17	1.2	3
1000-1700	15±0.5	±0.3	0.8	1.2	22	17	1.2	3
1700-2000	15±0.5	±0.3	0.8	1.3	18	14	1.3	3

## Typical Performance Data

Frequency (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
800.00	0.61	15.05	21.82	16.76	16.78	17.94
900.00	0.61	15.02	24.69	17.99	18.24	19.75
1000.00	0.62	14.98	28.62	19.41	19.78	21.74
1100.00	0.65	14.95	35.07	20.93	21.42	24.05
1300.00	0.70	14.89	35.05	24.28	25.40	30.01
1500.00	0.76	14.85	25.86	27.83	28.00	27.12
1700.00	0.83	14.83	20.93	29.58	26.43	21.76
1800.00	0.93	14.90	18.71	28.87	25.74	19.68
1900.00	0.95	14.89	18.39	29.56	22.52	17.83
2000.00	0.96	14.87	16.73	31.44	22.01	16.30



## Electrical Schematic



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

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IF/RF MICROWAVE COMPONENTS

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