

Coaxial

Bi-Directional Coupler

50Ω

1500 to 2400 MHz

ZABDC20-2400



CASE STYLE: DD477

Connectors	Model	Price	Qty.
SMA	ZABDC20-2400-S	\$89.95 ea.	(1-9)

Maximum Ratings

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

Coaxial Connections

INPUT	1
OUTPUT	4
COUPLED (forward)	2
COUPLED (reverse)	3

Features

- excellent directivity, 25 dB typ.
- low insertion loss, 0.3 dB typ.
- high power, up to 10W
- rugged shielded case

Applications

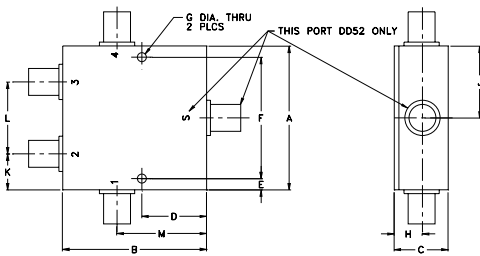
- PCS/DCS/UMTS
- power leveling & monitoring
- VSWR measurement

Bi-Directional Coupler Electrical Specifications

FREQ. RANGE (MHz)	COUPLING (dB)		MAINLINE LOSS ¹ (dB)		DIRECTIVITY (dB)		VSWR (:1)	POWER INPUT (W)
	Nom.	Flatness	Typ.	Max.	Typ.	Min.		
1500-2400	19.5±1.0	±1.0	0.3	0.5	25	18	1.2	10

1. Mainline loss includes theoretical power loss at coupled port.

Outline Drawing



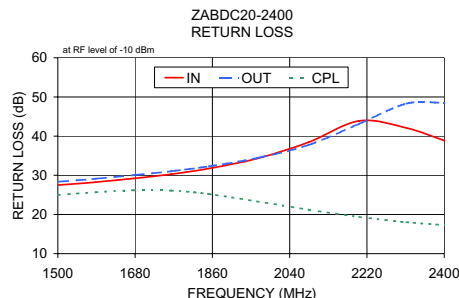
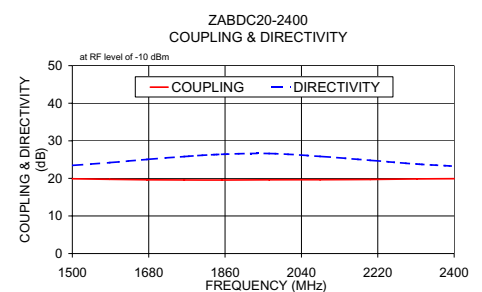
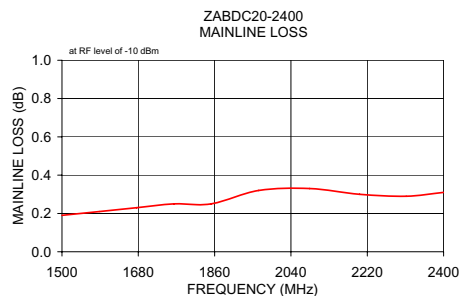
Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
2.00	2.00	.75	.90	.156	1.688	.125
50.80	50.80	19.05	22.86	3.96	42.88	3.18

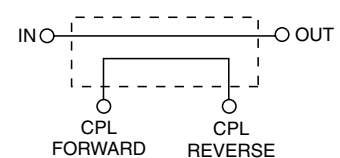
H	J	K	L	M	wt
.38	---	.50	1.00	1.25	grams
9.65	---	12.70	25.40	31.75	225.00

Typical Performance Data

Frequency (MHz)	Mainline Loss (dB) In-Out	Coupling (dB) In-Cpl	Directivity (dB)	Return Loss (dB)		
				In	Out	Cpl
1500.00	0.19	19.90	23.45	27.51	28.35	24.98
1588.00	0.21	19.75	24.21	28.25	29.14	25.69
1676.00	0.23	19.63	25.06	29.19	30.06	26.19
1764.00	0.25	19.59	25.82	30.29	31.05	26.11
1852.00	0.25	19.56	26.41	31.74	32.30	25.22
1964.00	0.32	19.62	26.62	34.28	34.41	23.34
2084.00	0.33	19.65	25.86	38.45	37.76	21.21
2202.00	0.30	19.71	24.82	43.89	43.16	19.38
2312.00	0.29	19.85	23.81	42.07	48.30	18.05
2400.00	0.31	19.93	23.26	38.87	48.51	17.31



electrical schematic



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 REV. OR
M95663
ZABDC20-2400
WP/TD/CP
060726