

DC Pass

Bi-Directional Coupler

ZABDC10-25HP

50Ω Up to 10W 1500 to 2500 MHz

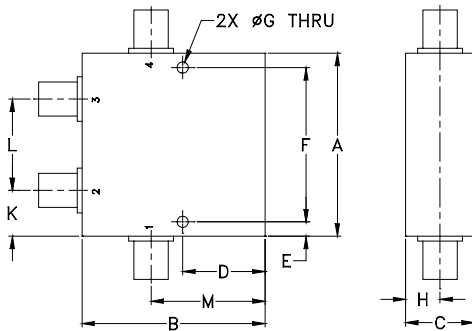
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
DC Current	3.0A

Coaxial Connections

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

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		145	

Features

- excellent directivity, 26 dB typ.
- low mainline loss, 0.55 dB typ.
- high power, up to 10W
- rugged shielded case
- DC Current through input to output 3.0A Max. at 1.0 Watt RF input power.

Applications

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



CASE STYLE: DD477

Connectors	Model	Price	Qty.
SMA	ZABDC10-25HP-S	\$89.95 ea.	(1-9)

Bi-Directional Coupler Electrical Specifications

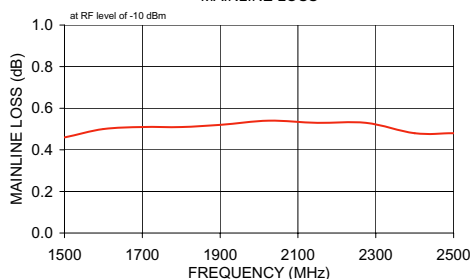
FREQ. RANGE (MHz)	COUPLING (dB)		MAINLINE LOSS ¹ (dB)		DIRECTIVITY (dB)		VSWR (:1)	POWER INPUT (W)
	Nom.	Flatness	Typ.	Max.	Typ.	Min.		
f_L - f_U								
1500-2500	10.0±1.0	±0.5	0.55	0.9	26	18	1.1	10

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

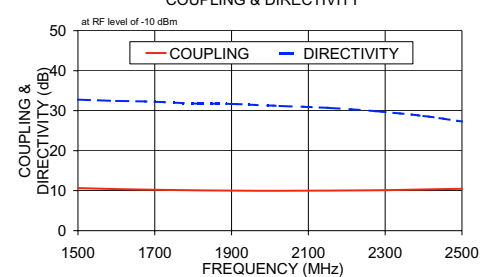
Typical Performance Data

Frequency (MHz)	Mainline Loss (dB)		Coupling (dB)	Directivity (dB)	Return Loss (dB)		
	In-Out	In-Cpl			In	Out	Cpl
1500.00	0.46	10.63	32.78	35.66	32.94	29.14	
1600.00	0.50	10.40	32.41	36.80	32.04	29.28	
1700.00	0.51	10.22	32.23	38.86	31.39	29.14	
1800.00	0.51	10.10	31.80	41.30	30.68	28.63	
1900.00	0.52	10.02	31.67	40.85	29.79	27.81	
2025.00	0.54	9.97	31.18	35.57	28.38	26.47	
2150.00	0.53	10.01	30.70	31.10	26.78	24.97	
2275.00	0.53	10.12	29.90	27.82	25.17	23.39	
2400.00	0.48	10.30	28.68	25.32	23.70	21.69	
2500.00	0.48	10.49	27.31	23.74	22.69	20.27	

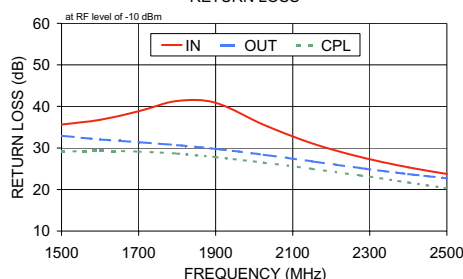
ZABDC10-25HP MAINLINE LOSS



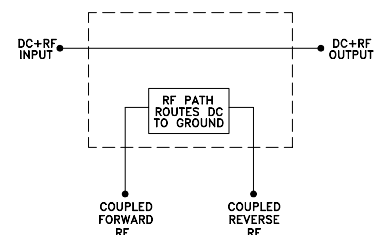
ZABDC10-25HP COUPLING & DIRECTIVITY



ZABDC10-25HP RETURN LOSS



electrical schematic



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RF/IF MICROWAVE COMPONENTS

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