Bi-Directional Coupler

ZABDC10-25HP

CASE STYLE: DD477

ZABDC10-25HP-S

Price

\$89.95 ea. (1-9)

Qty.

Model

Connectors

SMA

50Ω Up to 10W 1500 to 2500 MHz

Maximum Ratings

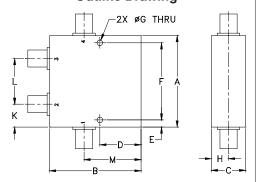
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
DC Current	3.0A

^{*} Case temperature is defined as temperature on ground leads Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch)

G	F	F	D	C	В	Α
.125	1.688	.156	.90	.75	2.00	2.00
	1.000				2.00	2.00
3.18	42.88	3.96	22.86	19.05	50.80	50.80
wt		M	L	K	J	Н
grams		1.25	1.00	.50		.38
145		31.75	25.40	12.70		9.65

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 ouput 3.0A Max. at 1.0 Watt RF input power.

Applications

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

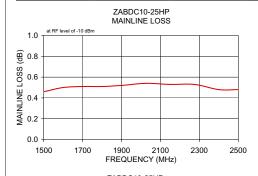
Bi-Directional Coupler Electrical Specifications

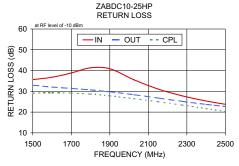
FREQ. RANGE (MHz)	COUPLING (dB)	MAINLINE LOSS ¹ (dB)	DIRECTIVITY (dB)	VSWR (:1)	POWER INPUT (W)
f _∟ -f _∪	Nom. Flatness	Тур. Мах.	Typ. Min.	Тур.	Max.
1500-2500	10.0±1.0 ±0.5	0.55 0.9	26 18	1.1	10

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

Typical Performance Data

Frequency (MHz)	Mainline Loss (dB)	Coupling (dB)	(dB) (dB)		Return Loss (dB)		
	In-Out In-	In-CpI			Out	СрІ	
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	



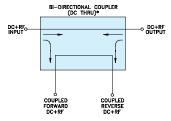


20 21 20 200 2500 FREQUENCY (MHz)

ZABDC10-25HP

COUPLING & DIRECTIVITY

Electrical Schematic



 ELECTRICAL SCHEMATIC IS FOR BI-DIRECTION, COUPLER WITHOUT INTERNAL TRANSFORMERS

Mini-Circuits

ISO 9001 ISO 14001 AS 9100 CERTIFIED

For detailed performance special

