

Coaxial Power Splitter/Combiner

ZB4PD1-500+ ZB4PD1-500

4 Way-0° 50Ω 5 to 500 MHz



BNC version shown
CASE STYLE: UU188

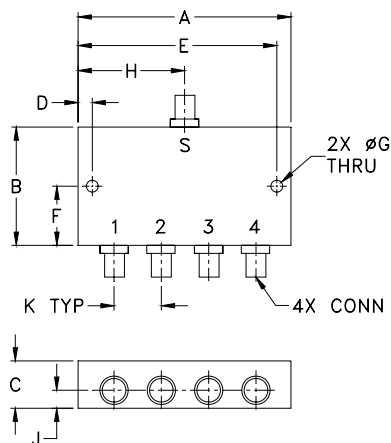
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.250W max.

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	
3.50	2.13	.88	.150	3.350	1.06	
88.90	54.10	22.35	3.81	85.09	26.92	
G	H	J	K			wt
.125	1.75	.44	.89			grams
3.18	44.45	11.18	22.61			260

Features

- wideband, 5 to 500 MHz
- high isolation, 34 dB typ.
- rugged, shielded case

Applications

- VHF/UHF
- receivers/transmitters

Connectors	Model	Price	Qty.
BNC	ZB4PD1-500+	\$79.95	(1-9)
SMA	ZB4PD1-500-S(+)	\$79.95	(1-9)
N-TYPE	ZB4PD1-500-N(+)	\$94.95	(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.

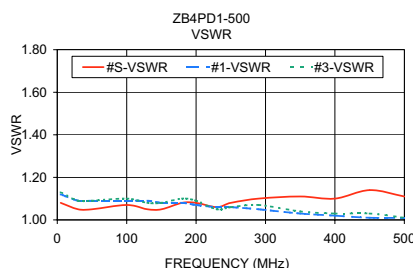
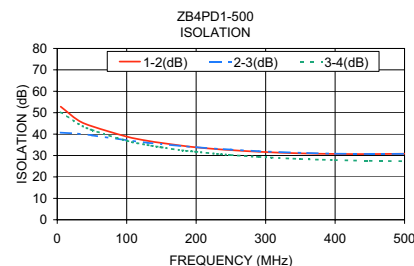
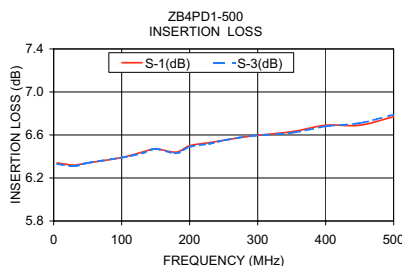
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 6.0 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L	M	U	L	M	U	L	M	U	L	M	U
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.
5-500	34	20	34	20	28	20	0.4	1.0	0.5	0.9	0.9	1.5
	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.

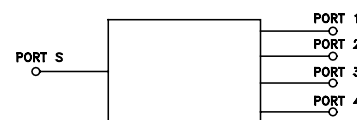
L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

Typical Performance Data

Freq. (MHz)	Insertion Loss (dB)				Amp. Unbal. (dB)	Isolation (dB)			VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	2-3	3-4					
5.00	6.34	6.35	6.33	6.33	0.01	52.83	40.68	50.23	1.08	1.12	1.12	1.13	1.13
30.00	6.32	6.32	6.31	6.32	0.01	46.48	40.23	44.89	1.05	1.09	1.09	1.09	1.09
50.00	6.34	6.34	6.34	6.35	0.01	43.68	39.45	41.92	1.05	1.09	1.09	1.09	1.10
100.00	6.39	6.39	6.39	6.38	0.01	38.83	37.13	36.88	1.07	1.09	1.10	1.10	1.10
130.00	6.44	6.43	6.43	6.43	0.01	36.86	35.97	34.90	1.05	1.09	1.08	1.08	1.08
150.00	6.47	6.46	6.47	6.46	0.01	35.87	35.35	33.83	1.05	1.08	1.08	1.08	1.08
180.00	6.44	6.44	6.43	6.43	0.01	34.55	34.35	32.40	1.08	1.08	1.09	1.10	1.10
200.00	6.50	6.51	6.49	6.48	0.03	33.82	33.88	31.75	1.08	1.07	1.07	1.09	1.09
230.00	6.53	6.54	6.52	6.51	0.03	32.96	33.12	30.74	1.06	1.06	1.04	1.05	1.05
250.00	6.55	6.56	6.55	6.53	0.03	32.54	32.76	30.22	1.08	1.06	1.06	1.06	1.06
290.00	6.59	6.59	6.59	6.58	0.02	31.75	32.00	29.34	1.10	1.05	1.05	1.07	1.07
350.00	6.63	6.64	6.62	6.60	0.04	31.02	31.24	28.37	1.11	1.03	1.04	1.04	1.04
400.00	6.69	6.72	6.68	6.67	0.05	30.73	30.84	27.85	1.10	1.02	1.01	1.03	1.03
450.00	6.69	6.72	6.71	6.67	0.05	30.66	30.70	27.53	1.14	1.01	1.01	1.03	1.03
500.00	6.77	6.81	6.79	6.75	0.06	30.85	30.77	27.37	1.11	1.01	1.02	1.01	1.02



electrical schematic



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RF/IF MICROWAVE COMPONENTS

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