

Coaxial

Power Splitter/Combiner

ZB4PD1-500-75+

4 Way-0° 75Ω 5 to 500 MHz

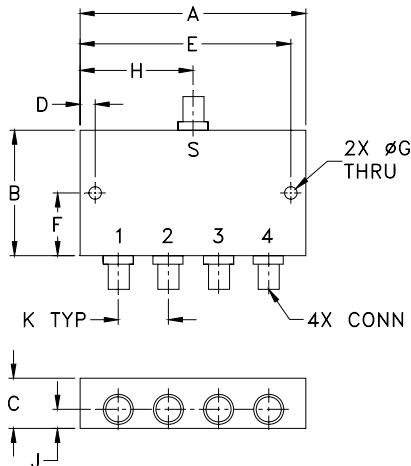
Maximum Ratings

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.
Permanent damage may occur if any of these limits are exceeded.	

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
- communication systems



CASE STYLE: UU188

Connectors	Model
BNC	ZB4PD1-500-75+

+RoHS Compliant

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

Electrical Specifications

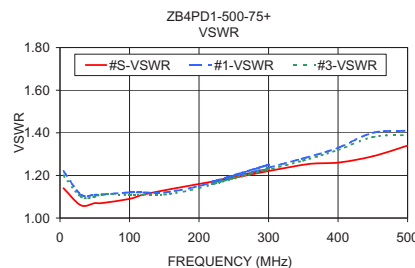
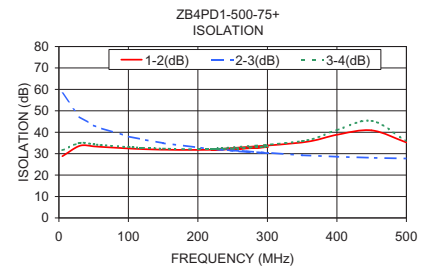
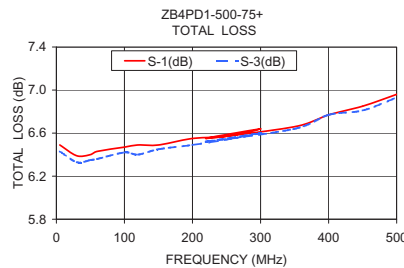
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 6.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
5-500	34	20	34	20	30	20	0.45	1.0	0.6	0.9	1.0	1.5	1	3	6	—	0.20	—

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)	Total Loss ¹ (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	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	6.49	6.49	6.43	6.50	0.06	28.81	58.18	31.62	0.30	1.14	1.22	1.22	1.20	1.20
30.00	6.39	6.38	6.33	6.37	0.05	33.64	47.14	35.00	0.16	1.06	1.11	1.11	1.10	1.10
50.00	6.40	6.41	6.35	6.41	0.06	33.40	43.21	34.34	0.02	1.07	1.11	1.11	1.10	1.10
60.00	6.43	6.43	6.36	6.42	0.07	33.19	41.95	34.01	0.17	1.07	1.11	1.11	1.11	1.11
100.00	6.47	6.46	6.42	6.46	0.05	32.42	38.02	33.06	0.23	1.09	1.12	1.12	1.11	1.11
120.00	6.49	6.47	6.40	6.47	0.09	32.13	36.65	32.70	0.50	1.11	1.12	1.12	1.11	1.11
150.00	6.49	6.51	6.45	6.50	0.06	31.86	34.91	32.35	0.42	1.13	1.12	1.12	1.11	1.12
200.00	6.55	6.55	6.49	6.54	0.06	31.76	32.86	32.07	0.67	1.16	1.15	1.15	1.14	1.14
250.00	6.57	6.59	6.54	6.60	0.06	32.11	31.29	32.30	0.81	1.19	1.20	1.19	1.19	1.18
300.00	6.64	6.64	6.60	6.63	0.05	33.12	30.19	33.42	1.00	1.23	1.25	1.24	1.23	1.23
220.00	6.55	6.56	6.52	6.58	0.06	31.86	32.28	32.12	0.90	1.17	1.17	1.16	1.16	1.16
350.00	6.66	6.68	6.64	6.68	0.04	35.23	29.24	35.85	1.14	1.25	1.28	1.28	1.27	1.26
400.00	6.77	6.79	6.77	6.78	0.02	38.83	28.58	41.08	1.42	1.26	1.33	1.33	1.32	1.31
450.00	6.85	6.87	6.81	6.82	0.06	40.85	28.08	45.31	1.58	1.29	1.40	1.39	1.38	1.36
500.00	6.96	6.98	6.93	6.94	0.05	35.23	27.72	35.85	2.09	1.34	1.41	1.40	1.39	1.37

1. Total Loss = Insertion Loss + 6dB splitter loss.



electrical schematic



Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

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