

Coaxial Power Splitter/Combiner

ZB4PD1-8.4+ ZB4PD1-8.4

4 Way-0° 50Ω 6700 to 8400 MHz



Maximum Ratings

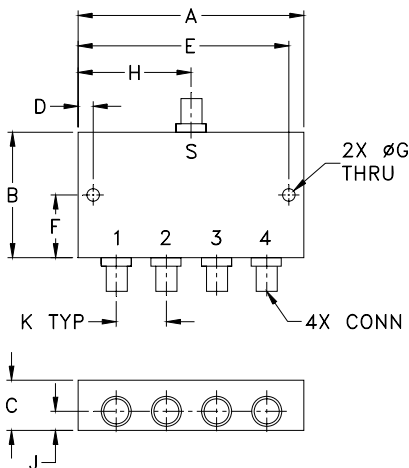
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.375W max.

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, 6700 to 8400 MHz
- high isolation, 29 dB typ.
- excellent VSWR
- up to 10W power input as a splitter

Applications

- CATV
- defense communications

SMA version shown
CASE STYLE: UU188

Connectors	Model	Price	Qty.
SMA	ZB4PD1-8.4-S+	\$149.95	(1-9)
N-TYPE	ZB4PD1-8.4-N(+)	\$149.95	(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.

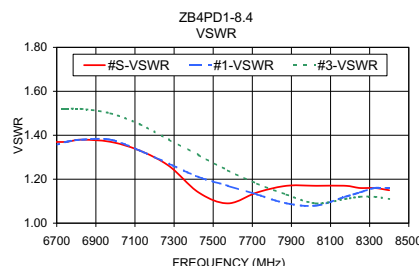
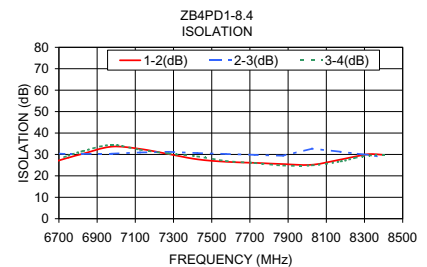
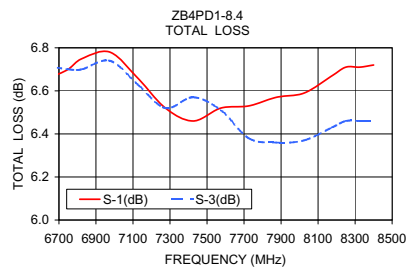
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 6.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
	Typ.	Min.	Typ.	Max.			S		OUT	
6700-8400	29	18	0.5	1.3	9	0.9	1.12	1.6	1.27	1.6

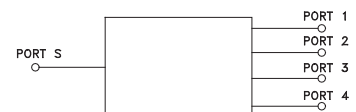
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (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					
6675.00	6.67	6.52	6.71	6.68	0.19	26.52	30.49	27.41	1.37	1.35	1.42	1.52	1.37
6750.00	6.70	6.55	6.70	6.67	0.15	28.49	30.14	29.46	1.37	1.37	1.44	1.52	1.39
6825.00	6.75	6.58	6.70	6.67	0.17	30.31	30.23	31.52	1.38	1.38	1.44	1.52	1.41
6975.00	6.78	6.65	6.74	6.67	0.13	33.63	30.34	34.43	1.37	1.38	1.42	1.50	1.42
7125.00	6.66	6.59	6.63	6.52	0.13	32.58	30.92	32.21	1.33	1.33	1.38	1.45	1.38
7275.00	6.52	6.50	6.52	6.35	0.17	30.18	31.21	30.37	1.26	1.27	1.33	1.38	1.33
7425.00	6.46	6.58	6.57	6.31	0.27	27.72	30.64	29.07	1.14	1.21	1.27	1.31	1.27
7575.00	6.52	6.54	6.51	6.36	0.18	26.56	30.19	26.94	1.09	1.17	1.21	1.24	1.22
7725.00	6.53	6.45	6.38	6.38	0.15	26.08	29.79	26.01	1.14	1.13	1.17	1.18	1.17
7875.00	6.57	6.43	6.36	6.40	0.21	25.49	29.40	24.82	1.17	1.09	1.12	1.13	1.14
8025.00	6.59	6.46	6.37	6.44	0.22	25.20	32.73	24.91	1.17	1.08	1.08	1.09	1.13
8175.00	6.67	6.50	6.43	6.49	0.24	27.63	31.20	26.73	1.17	1.12	1.10	1.11	1.15
8250.00	6.71	6.52	6.46	6.52	0.25	28.99	30.46	28.38	1.16	1.14	1.12	1.12	1.16
8325.00	6.71	6.51	6.46	6.52	0.25	30.14	29.71	29.49	1.16	1.16	1.12	1.12	1.17
8400.00	6.72	6.52	6.46	6.53	0.26	29.80	28.69	29.54	1.15	1.16	1.12	1.11	1.17

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



electrical schematic



Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED
IFIRF MICROWAVE COMPONENTS

For detailed performance specs & shipping online see web site

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Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

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