

DC Pass

Power Splitter/Combiner

ZB4PD1-8.4+ ZB4PD1-8.4

4 Way-0° 50Ω 6700 to 8400 MHz

Maximum Ratings

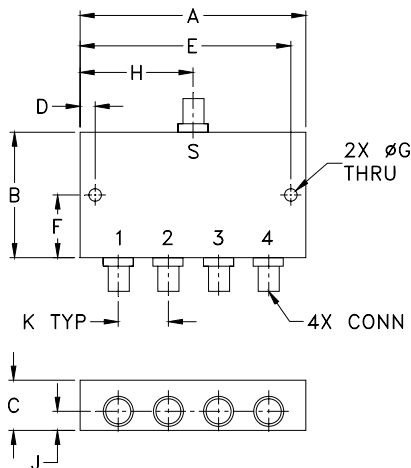
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.375W max.
DC Current	1.6A (400mA for each port)

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
SMA	ZB4PD1-8.4-S+
N-TYPE	ZB4PD1-8.4-N(+)

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

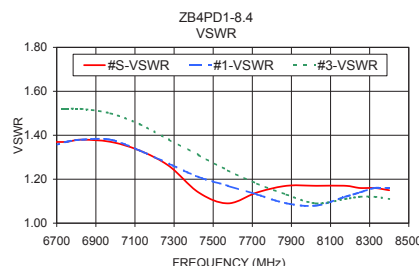
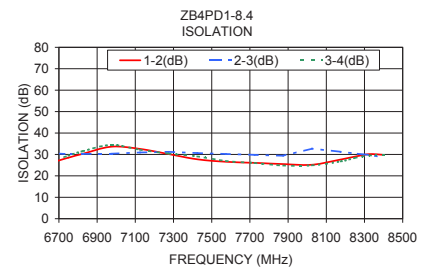
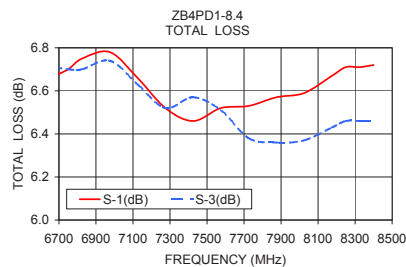
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 6.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	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	6.66	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



Notes

- 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.
- 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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