

DC Pass

# Power Splitter/Combiner

## ZB4PD1-8.4+ ZB4PD1-8.4

4 Way-0° 50Ω 6700 to 8400 MHz

### Maximum Ratings

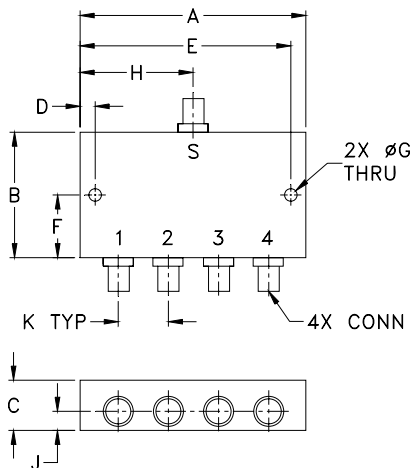
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.375W max.
DC Current	1.6A (400mA for each port)

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

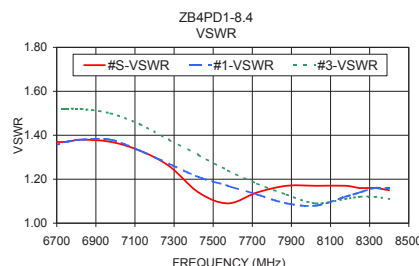
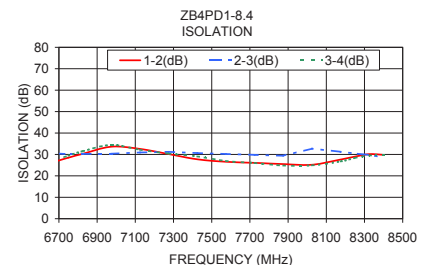
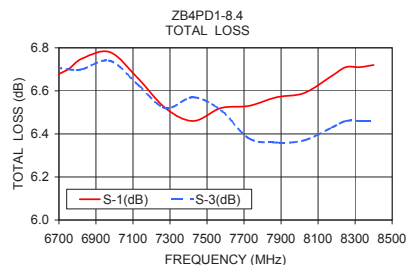
### Electrical Specifications

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 <sup>1</sup> (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.
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