

Power Splitter/Combiner

ZB4PD-6.4A+

4 Way-0° 50Ω 5400 to 6800 MHz

Maximum Ratings

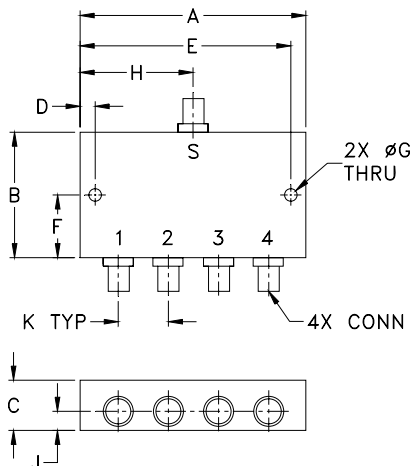
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.375W max.
DC Current	1.2 A (300mA for each port)

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, 5400 to 6800 MHz
- good isolation, 25 dB typ.
- rugged, shielded case

Applications

- satellite communications
- receivers/transmitters



CASE STYLE: UU188

Connectors	Model
N-Type	ZB4PD-6.4A-N+

+RoHS Compliant

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

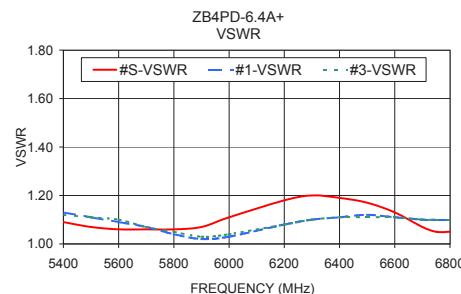
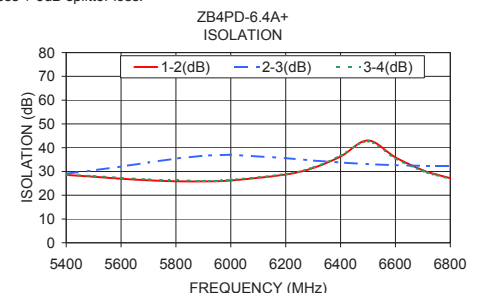
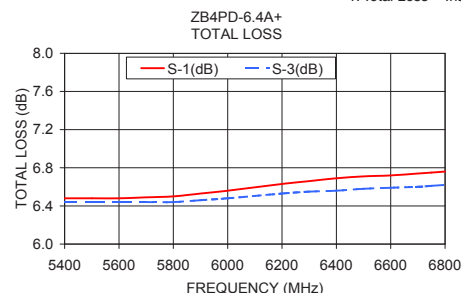
Electrical Specifications

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		5400	—	6800	MHz
Insertion Loss Above 6.0 dB	5400-6800	—	0.6	1.2	dB
Isolation	5400-6800	18	25	—	dB
Phase Unbalance	5400-6800	—	—	9.0	Degree
Amplitude Unbalance	5400-6800	—	—	0.9	dB
VSWR Input	5400-6800	—	1.30	1.50	:1
VSWR Output	5400-6800	—	1.30	1.50	:1

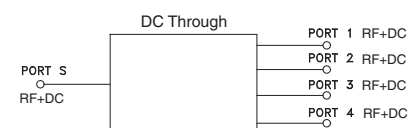
Typical Performance Data

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					
5400.00	6.48	6.46	6.44	6.42	0.07	28.53	29.05	28.62	1.09	1.13	1.16	1.12	1.12
5500.00	6.48	6.45	6.44	6.42	0.06	27.79	30.48	28.08	1.07	1.11	1.14	1.11	1.12
5600.00	6.48	6.44	6.44	6.42	0.06	26.95	32.07	27.32	1.06	1.09	1.12	1.10	1.10
5700.00	6.49	6.45	6.44	6.44	0.05	26.28	33.78	26.66	1.06	1.07	1.08	1.07	1.09
5800.00	6.50	6.45	6.44	6.44	0.06	25.87	35.42	26.19	1.06	1.04	1.05	1.05	1.07
5900.00	6.53	6.46	6.46	6.46	0.08	25.84	36.67	26.13	1.07	1.02	1.01	1.03	1.05
6000.00	6.56	6.48	6.48	6.49	0.08	26.21	37.04	26.44	1.11	1.03	1.03	1.04	1.04
6200.00	6.63	6.53	6.53	6.54	0.11	28.71	35.60	28.91	1.18	1.08	1.10	1.08	1.06
6300.00	6.66	6.55	6.55	6.57	0.12	31.45	34.61	31.66	1.20	1.10	1.13	1.10	1.08
6400.00	6.69	6.57	6.56	6.60	0.13	36.30	33.76	36.63	1.19	1.11	1.14	1.11	1.08
6500.00	6.71	6.58	6.58	6.62	0.13	43.03	33.09	42.66	1.17	1.12	1.15	1.11	1.08
6600.00	6.72	6.59	6.59	6.64	0.14	35.93	32.62	35.45	1.13	1.11	1.14	1.11	1.07
6700.00	6.74	6.60	6.60	6.66	0.14	30.49	32.36	30.19	1.07	1.10	1.13	1.10	1.07
6750.00	6.75	6.60	6.61	6.67	0.14	28.71	32.31	28.45	1.05	1.10	1.13	1.10	1.08
6800.00	6.76	6.62	6.62	6.68	0.14	27.19	32.31	26.97	1.05	1.10	1.13	1.10	1.09

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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