

Power Splitter/Combiner

ZB4PD-6.4+

4 Way-0° 50Ω 5400 to 6800 MHz

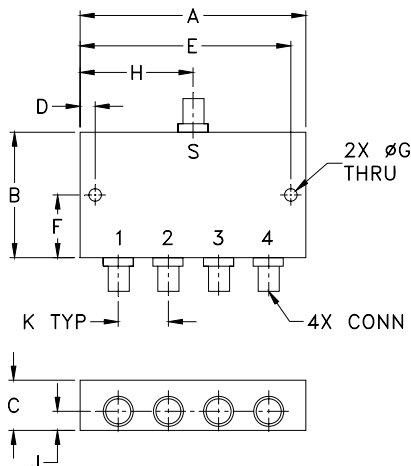
Maximum Ratings

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
- excellent output VSWR, 1.15:1 typ.

Applications

- satellite communications
- receivers/transmitters



Generic photo used for illustration purposes only

CASE STYLE: UU188

Connectors Model
SMA ZB4PD-6.4-S+

+RoHS Compliant

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

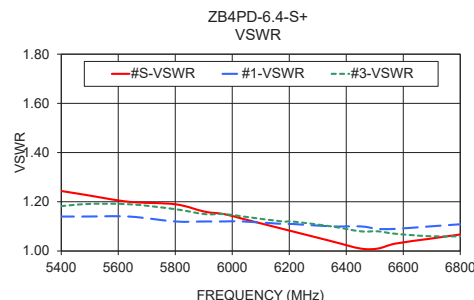
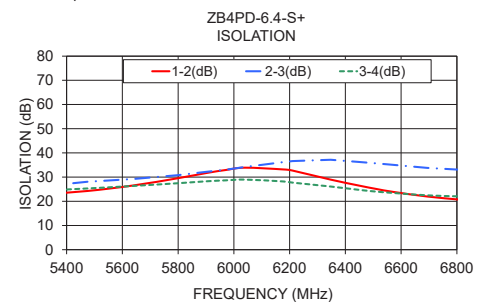
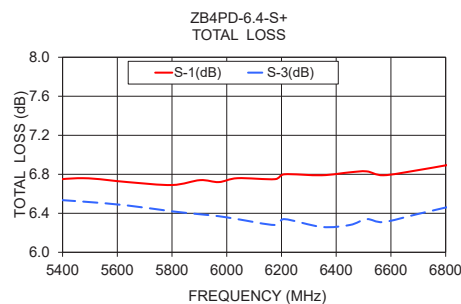
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 6.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
f_L - f_U	Typ.	Min.	Typ.	Max.	Max.	Max.	S		OUT	
							Typ.	Max.	Typ.	Max.
5400-6800	25	18	0.6	1.2	9	0.9	1.15	1.30	1.10	1.30

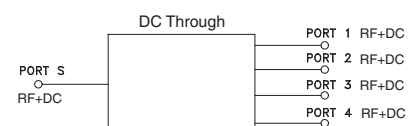
Typical Performance Data

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					
5312.50	6.73	6.64	6.55	6.53	0.20	22.86	26.16	24.41	1.26	1.14	1.12	1.17	1.12
5475.00	6.76	6.58	6.52	6.50	0.26	24.26	28.06	25.30	1.23	1.14	1.12	1.19	1.13
5637.50	6.72	6.53	6.48	6.48	0.24	26.51	29.21	26.33	1.20	1.14	1.12	1.19	1.12
5800.00	6.69	6.45	6.42	6.44	0.28	29.55	30.79	27.47	1.19	1.12	1.10	1.17	1.10
5902.63	6.74	6.45	6.39	6.44	0.35	31.71	32.18	28.27	1.16	1.12	1.09	1.15	1.10
5971.05	6.72	6.42	6.37	6.43	0.35	32.93	33.03	28.65	1.15	1.12	1.09	1.15	1.10
6039.47	6.76	6.41	6.34	6.40	0.42	33.89	34.16	28.96	1.13	1.12	1.09	1.14	1.09
6176.32	6.75	6.39	6.28	6.38	0.47	33.17	36.16	28.20	1.09	1.11	1.08	1.12	1.09
6210.53	6.80	6.42	6.34	6.41	0.46	32.69	36.62	27.71	1.08	1.11	1.08	1.12	1.08
6347.37	6.79	6.33	6.26	6.38	0.52	28.95	37.17	26.09	1.04	1.10	1.06	1.10	1.08
6450.00	6.82	6.35	6.28	6.42	0.54	26.46	36.23	24.71	1.01	1.10	1.06	1.08	1.07
6511.11	6.83	6.34	6.34	6.45	0.49	25.09	35.65	23.99	1.01	1.09	1.05	1.08	1.08
6572.22	6.79	6.29	6.31	6.44	0.50	23.87	35.04	23.44	1.03	1.09	1.05	1.07	1.08
6694.44	6.84	6.31	6.39	6.52	0.54	21.96	33.79	22.45	1.05	1.10	1.05	1.06	1.09
6816.67	6.90	6.35	6.47	6.59	0.55	20.61	33.02	22.00	1.07	1.11	1.06	1.06	1.10

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



electrical schematic



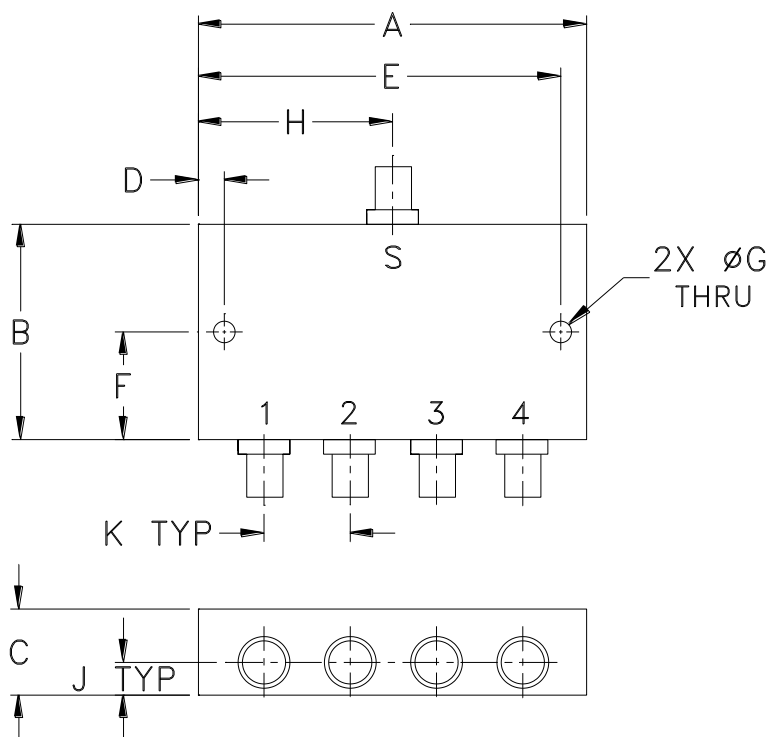
Notes

- 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.
- The parts covered by this specification document 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



Outline Dimensions

UU188



CASE#	A	B	C	D	E	F	G	H	J	K	WT. GRAMS
UU188	3.50 (88.90)	2.13 (54.10)	.88 (22.35)	.150 (3.81)	3.350 (85.09)	1.06 (26.92)	.125 (3.18)	1.75 (44.45)	.44 (11.18)	.89 (22.61)	260

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Case material: Aluminum alloy.
- Case finish:
For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
- Refer to the individual model data sheet for the type of connectors available.



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



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RF/IF MICROWAVE COMPONENTS

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All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I