Coaxial

Power Splitter/Combiner

ZB8PD-252+

8 Way-0° 50Ω 1550 to 2500 MHz

CASE STYLE: Z41

Connectors	Model	Price	Qty.
SMA	ZB8PD-252-S+	$149.95	(1-9)

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

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	0.875W max.

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	S
PORT 1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8

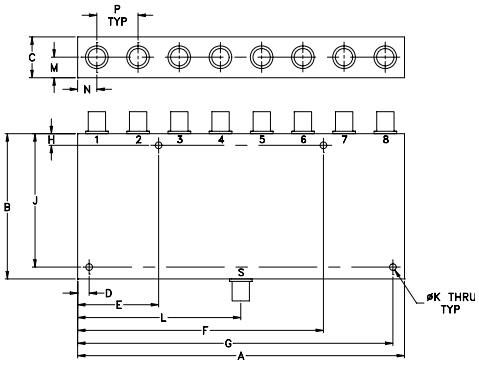
Features

- low insertion loss, 0.8 dB typ.
- good isolation, 25 dB typ.
- up to 10W power input
- rugged, shielded case

Applications

- cellular
- PCS/DCS
- communication systems
- GPS

Outline Drawing

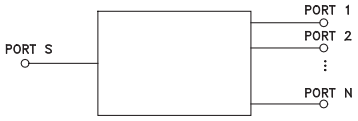


Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H
7.06	3.13	.88	.250	1.750	5.310	6.810	.250
179.32	79.50	22.35	6.35	44.45	134.87	172.97	6.35

J	K	L	M	N	P	wt
2.875	.144	3.53	.44	.415	.89	grams
73.03	3.66	89.66	11.18	10.54	22.61	800

Electrical Schematic



Electrical Specifications at 25°C

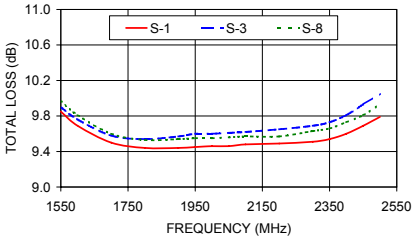
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		1550	—	2500	MHz
Insertion Loss Above 9.0 dB	1550 - 2500	—	0.8	1.5	dB
Isolation	1550 - 2500	19	25	—	dB
Phase Unbalance	1550 - 2500	—	3.2	6.0	Degree
Amplitude Unbalance	1550 - 2500	—	0.3	0.6	dB
VSWR (Port S)	1550 - 2500	—	1.7	2.2	:1
VSWR (Port 1-8)	1550 - 2500	—	1.2	1.4	:1

Typical Performance Data

Freq. (MHz)	Total Loss[1] (dB)						Amp. Unb. (dB)	Isolation (dB)				VSWR S	VSWR 1	VSWR 8
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	1-3	3-4	6-7			
1550.00	9.85	9.83	9.90	9.94	9.94	9.97	0.14	22.53	21.59	22.15	21.46	1.89	1.18	1.20
1600.00	9.69	9.67	9.76	9.78	9.79	9.81	0.14	24.45	22.66	23.91	22.50	1.66	1.15	1.17
1700.00	9.50	9.49	9.58	9.60	9.60	9.60	0.11	28.84	25.58	28.07	25.28	1.33	1.12	1.13
1800.00	9.44	9.42	9.54	9.55	9.54	9.53	0.13	29.37	29.96	28.94	29.16	1.17	1.11	1.12
1900.00	9.44	9.43	9.57	9.56	9.54	9.54	0.13	28.65	36.75	28.29	34.00	1.18	1.14	1.13
1950.00	9.45	9.45	9.60	9.58	9.55	9.55	0.15	29.15	41.55	28.50	36.25	1.20	1.15	1.14
2000.00	9.46	9.45	9.60	9.59	9.56	9.55	0.15	30.05	45.30	29.13	37.86	1.21	1.16	1.15
2050.00	9.46	9.46	9.61	9.60	9.57	9.56	0.16	31.28	44.07	29.74	38.29	1.21	1.17	1.16
2100.00	9.48	9.48	9.62	9.62	9.58	9.57	0.14	32.32	42.59	30.09	38.88	1.21	1.18	1.17
2200.00	9.49	9.50	9.65	9.64	9.61	9.57	0.16	30.84	39.96	28.71	40.84	1.19	1.18	1.18
2300.00	9.51	9.55	9.69	9.65	9.67	9.63	0.17	28.37	35.64	26.54	38.65	1.22	1.19	1.18
2350.00	9.54	9.59	9.73	9.69	9.71	9.66	0.19	27.35	32.96	25.64	35.12	1.28	1.19	1.18
2400.00	9.60	9.64	9.81	9.76	9.79	9.73	0.21	26.28	30.34	24.78	31.99	1.38	1.20	1.19
2450.00	9.69	9.74	9.93	9.88	9.90	9.81	0.24	25.19	28.33	23.96	29.54	1.51	1.21	1.20
2500.00	9.79	9.85	10.05	10.01	10.02	9.93	0.26	23.91	26.43	22.93	27.49	1.67	1.22	1.21

1. Total Loss = Insertion Loss + 9dB splitter theoretical loss.

ZB8PD-252+
TOTAL LOSS



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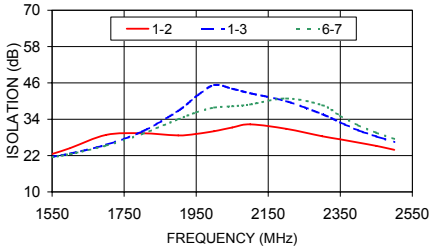
ISOLATION



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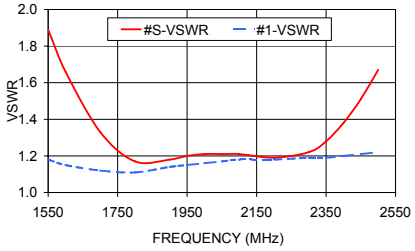
VSWR



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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