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TECHNOLOGY GROUP

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DC Pass

Power Splitter/Combiner

ZB8PD-2+

8 Way-0° 50Ω 1000 to 2000 MHz



Generic photo used for illustration purposes only

CASE STYLE: Z41

HT-Series Tight Spot SMA Wrench

Connectors	Model
SMA	ZB8PD-2-S+
N-TYPE	ZB8PD-2-N+

+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.
DC Current	1.2A(150mA for each port)

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

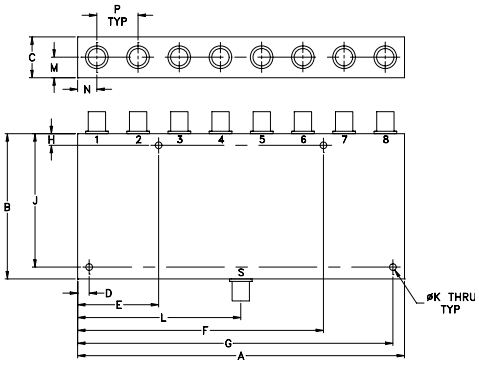
Features

- wideband, 1000 to 2000 MHz
- low insertion loss, 0.8 dB typ.
- good isolation, 24 dB typ.
- up to 10W power input as splitter

Applications

- GPS
- PCS/DCS
- communication systems
- instrumentation

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 Specifications

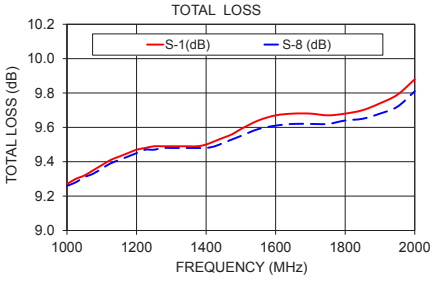
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 9.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L-f_U	Typ.	Min	Typ.	Max.	Max.	Max.
1000-2000	24	17	0.8	1.3	18	0.8

Typical Performance Data

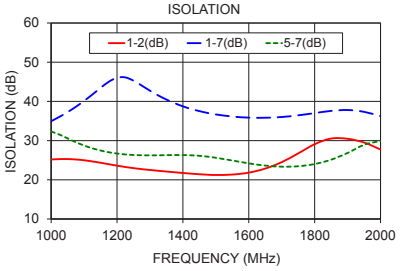
Freq. (MHz)	Total Loss[1] (dB)						Amp. Unb. (dB)	Isolation (dB)				Phase Unb. (deg.)	VSWR S	VSWR 1	VSWR 7
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	1-7	3-4	5-7				
1000.00	9.27	9.44	9.41	9.22	9.42	9.26	0.21	25.18	34.96	24.73	32.31	3.71	1.23	1.28	1.11
1050.00	9.32	9.48	9.45	9.27	9.47	9.31	0.20	25.29	37.28	24.99	30.56	3.95	1.34	1.29	1.13
1100.00	9.38	9.52	9.49	9.33	9.52	9.36	0.19	24.98	40.13	24.89	28.74	4.22	1.42	1.29	1.14
1200.00	9.47	9.58	9.56	9.43	9.57	9.45	0.15	23.61	46.04	23.80	26.70	4.72	1.52	1.26	1.13
1250.00	9.49	9.58	9.56	9.46	9.57	9.47	0.12	22.98	45.29	23.18	26.33	4.96	1.51	1.25	1.12
1300.00	9.49	9.56	9.54	9.46	9.55	9.48	0.09	22.51	42.73	22.68	26.24	5.18	1.47	1.24	1.11
1400.00	9.50	9.51	9.51	9.48	9.50	9.48	0.03	21.74	38.74	21.81	26.31	5.59	1.37	1.24	1.10
1500.00	9.59	9.54	9.52	9.57	9.52	9.55	0.09	21.23	36.68	21.24	25.62	5.87	1.43	1.23	1.08
1600.00	9.67	9.55	9.53	9.66	9.54	9.61	0.19	21.83	35.86	21.81	24.19	6.07	1.52	1.18	1.06
1700.00	9.68	9.49	9.48	9.70	9.51	9.62	0.28	24.50	36.02	24.45	23.35	6.27	1.47	1.07	1.11
1750.00	9.67	9.46	9.46	9.72	9.48	9.62	0.32	26.73	36.45	26.75	23.46	6.38	1.44	1.02	1.15
1800.00	9.68	9.44	9.45	9.75	9.47	9.64	0.36	29.08	37.01	29.40	24.02	6.45	1.41	1.05	1.18
1900.00	9.74	9.44	9.45	9.81	9.46	9.68	0.41	30.46	37.80	31.63	26.84	6.42	1.37	1.12	1.20
1950.00	9.79	9.46	9.47	9.85	9.47	9.72	0.43	29.52	37.34	30.46	28.92	6.35	1.38	1.14	1.21
2000.00	9.88	9.54	9.54	9.93	9.54	9.81	0.45	27.73	36.24	28.25	29.93	6.42	1.47	1.16	1.24

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

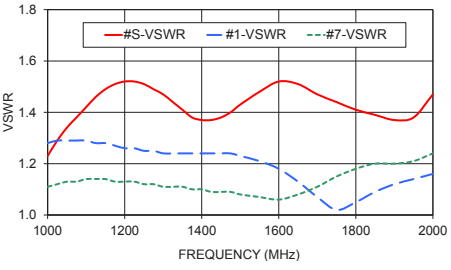
ZB8PD-2-S+
TOTAL LOSS



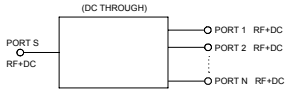
ZB8PD-2-S+
ISOLATION



ZB8PD-2-S+
VSWR



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.

C. 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

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