DC Pass

Power Splitter/Combiner

8 Way-0° 50Ω 800 to 2000 MHz

ZB8PD-2000+



Generic photo used for illustration purposes only

SMA version shown
CASE STYLE: Z41

Connectors	Model
SMA	ZB8PD-2000-S+
N-TYPE	ZB8PD-2000-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	1.8A(225mA 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

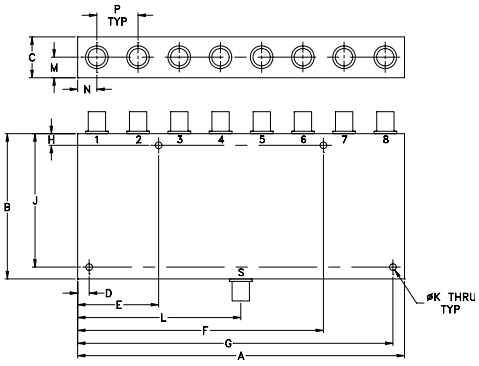
Features

- wideband, 800 to 2000 MHz
- low insertion loss, 0.8 dB typ.
- good isolation, 26 dB typ.
- up to 10W power input
- rugged, shielded case

Applications

- cellular
- PCS/DCS
- communication systems
- GPS

Outline Drawing

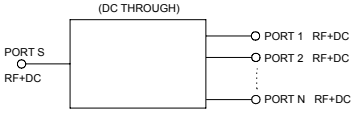


Outline Dimensions (inch / mm)

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

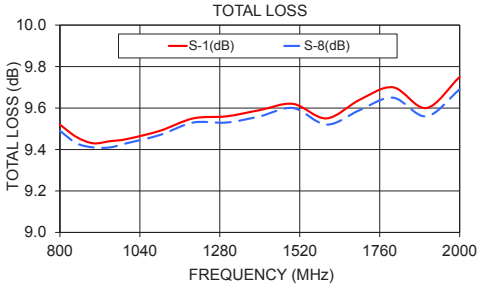
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		800		2000	MHz
Insertion Loss (above theoretical 9.0 dB)	800 - 2000	—	0.8	1.6	dB
Isolation	800 - 2000	20	26	—	dB
Phase Unbalance	800 - 2000	—	3	7	Degree
Amplitude Unbalance	800 - 2000	—	0.3	0.7	dB
VSWR (Port S)	800 - 2000	—	1.25	1.7	:1
VSWR (Port 1-8)	800 - 2000	—	1.1	1.35	:1

Typical Performance Data

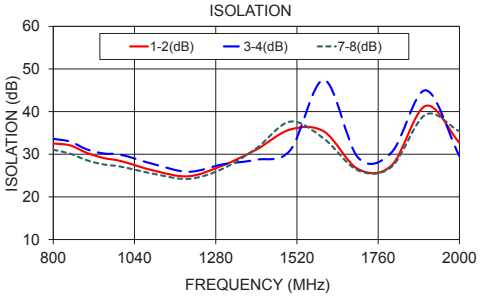
Freq. (MHz)	Total Loss[1] (dB)						Amplitude Unbalance (dB)	Isolation (dB)				Phase Unbalance (deg.)	VSWR		
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	2-3	3-4	5-6		S	1	8
800	9.52	9.56	9.55	9.54	9.49	9.49	0.07	32.53	33.61	32.18	31.04	1.34	1.39	1.09	1.11
850	9.46	9.50	9.50	9.48	9.44	9.43	0.07	32.07	32.95	31.29	30.12	1.39	1.24	1.09	1.10
900	9.43	9.48	9.48	9.45	9.42	9.41	0.07	30.29	31.11	29.75	28.56	1.42	1.12	1.08	1.09
950	9.44	9.49	9.49	9.45	9.43	9.41	0.08	29.09	30.16	29.09	27.59	1.43	1.06	1.08	1.09
1000	9.45	9.51	9.51	9.46	9.45	9.43	0.08	28.39	29.88	29.07	27.08	1.42	1.08	1.09	1.09
1100	9.49	9.55	9.55	9.50	9.50	9.47	0.08	26.10	27.60	27.29	25.35	1.40	1.14	1.09	1.08
1200	9.55	9.63	9.63	9.57	9.58	9.53	0.10	24.83	25.88	25.50	24.21	1.37	1.25	1.07	1.05
1300	9.56	9.65	9.68	9.60	9.60	9.53	0.14	27.34	27.61	27.22	26.57	1.25	1.24	1.05	1.03
1400	9.59	9.69	9.74	9.66	9.66	9.56	0.18	31.09	28.70	29.19	31.39	1.10	1.29	1.07	1.04
1500	9.62	9.73	9.80	9.71	9.72	9.60	0.20	35.80	30.92	31.91	37.65	1.13	1.36	1.06	1.04
1600	9.55	9.66	9.73	9.63	9.65	9.52	0.22	35.33	47.41	43.64	33.62	1.22	1.12	1.08	1.07
1700	9.64	9.76	9.83	9.72	9.73	9.59	0.23	26.54	29.26	29.04	26.22	1.47	1.28	1.16	1.15
1800	9.70	9.82	9.90	9.78	9.80	9.65	0.25	27.41	30.48	30.36	27.09	1.80	1.36	1.16	1.17
1900	9.60	9.72	9.83	9.69	9.73	9.56	0.27	41.34	45.00	42.05	39.29	2.27	1.07	1.10	1.11
2000	9.75	9.87	10.01	9.86	9.91	9.69	0.32	32.69	29.55	29.70	35.35	2.77	1.42	1.12	1.13

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

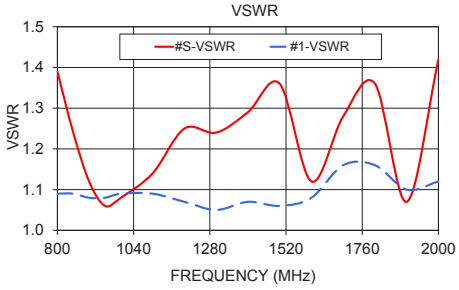
ZB8PD-2000-S+
TOTAL LOSS



ZB8PD-2000-S+
ISOLATION



ZB8PD-2000-S+
VSWR



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