

Power Splitter/Combiner

ZB8PD-242-75-F+

8 Way-0° 75Ω 600 to 2450 MHz

Maximum Ratings

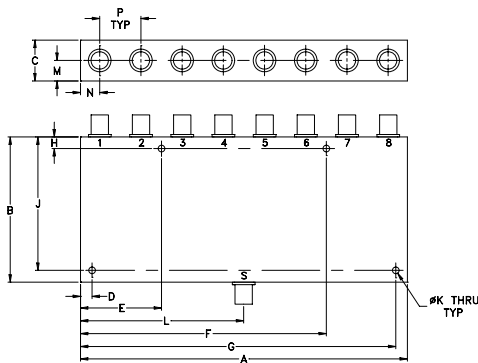
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.875W max.
DC Current	1.0 A (125mA for each port)

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

Outline Drawing

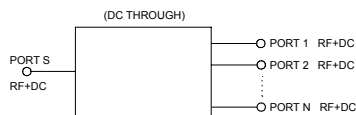


Outline Dimensions (inch/mm)

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



Features

- wideband, 600 to 2450 MHz
- low insertion loss, 0.7 dB typ.
- good isolation, 25 dB typ.
- good amplitude unbalance, 0.3 dB typ.
- rugged shielded case

Applications

- WiMax
- CATV
- PCS/DCS
- Cellular Infrastructure
- UMTS
- L-Band

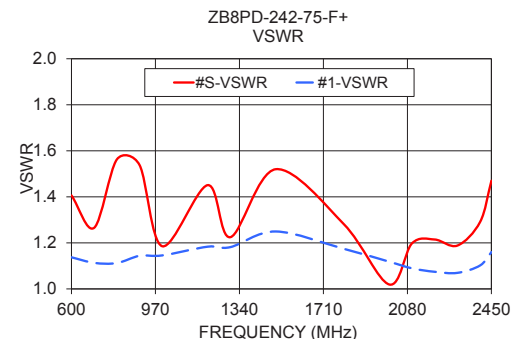
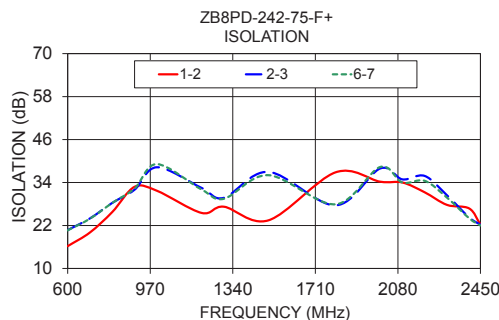
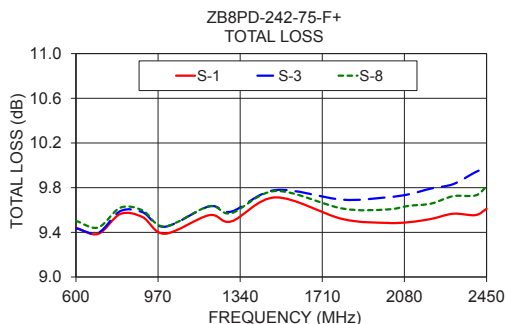
Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		600		2450	MHz
Insertion Loss (Above 9.0 dB)	600 - 2450	—	0.7	1.5	dB
Isolation	600 - 800	14	20	—	dB
	800 - 2450	19	27	—	dB
Phase Unbalance	600 - 2450	—	3	8	Degree
Amplitude Unbalance	600 - 2450	—	0.3	0.7	dB
VSWR (Port S)	600 - 2450	—	1.35	1.9	:1
VSWR (Port 1-8)	600 - 2450	—	1.15	1.35	:1

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)						Amp. Unb. (dB)	Isolation (dB)				Phase Unb. (deg.)	VSWR S	VSWR 1	VSWR 8
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	2-3	3-4	6-7				
600.00	9.44	9.46	9.44	9.47	9.47	9.50	0.07	16.23	20.72	25.09	20.65	0.90	1.41	1.14	1.13
700.00	9.39	9.40	9.40	9.43	9.43	9.44	0.06	20.06	23.98	27.85	23.91	1.04	1.27	1.11	1.10
800.00	9.56	9.58	9.59	9.62	9.61	9.62	0.06	25.77	28.32	30.76	28.32	1.30	1.56	1.11	1.10
900.00	9.54	9.56	9.58	9.61	9.60	9.60	0.07	32.82	32.01	33.83	32.33	1.48	1.54	1.14	1.13
1000.00	9.39	9.42	9.45	9.47	9.46	9.45	0.08	31.70	38.27	36.31	39.15	1.59	1.19	1.15	1.14
1200.00	9.55	9.60	9.63	9.65	9.66	9.63	0.10	25.51	32.50	37.84	32.05	1.84	1.45	1.18	1.16
1300.00	9.50	9.55	9.59	9.59	9.57	9.57	0.09	27.25	29.72	35.30	29.46	1.95	1.22	1.18	1.15
1500.00	9.71	9.77	9.78	9.81	9.78	9.77	0.09	23.45	36.97	32.37	36.05	2.09	1.52	1.25	1.21
1800.00	9.52	9.61	9.69	9.74	9.72	9.61	0.22	36.84	27.62	34.06	27.91	2.60	1.28	1.17	1.17
1900.00	9.50	9.64	9.71	9.73	9.75	9.64	0.25	45.38	31.17	35.43	31.71	2.64	1.25	1.15	1.15
2000.00	9.48	9.61	9.71	9.73	9.73	9.60	0.25	34.24	37.91	39.41	38.33	2.83	1.02	1.12	1.11
2100.00	9.49	9.64	9.74	9.76	9.80	9.64	0.31	34.01	34.88	36.19	34.00	3.06	1.20	1.09	1.07
2200.00	9.52	9.64	9.79	9.78	9.82	9.66	0.30	31.28	35.84	33.33	34.48	3.09	1.21	1.07	1.07
2300.00	9.57	9.70	9.83	9.79	9.87	9.72	0.30	27.76	30.44	30.32	29.79	3.75	1.19	1.07	1.07
2400.00	9.55	9.70	9.94	9.95	9.98	9.73	0.42	26.74	24.22	29.60	23.99	4.41	1.29	1.10	1.10
2450.00	9.61	9.80	9.98	10.03	10.11	9.81	0.50	22.36	22.22	27.50	22.04	4.18	1.47	1.16	1.15

1. Total Loss = Insertion Loss + 9.0 dB splitter theoretical loss.



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.
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www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

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JC/CP/AM
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CASE STYLE: Z41

Connectors Model
F-Type ZB8PD-242-75-F+

+RoHS Compliant

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