

Power Splitter/Combiner

ZB8PD-242-75+

8 Way-0° 75Ω 600 to 2450 MHz

Maximum Ratings

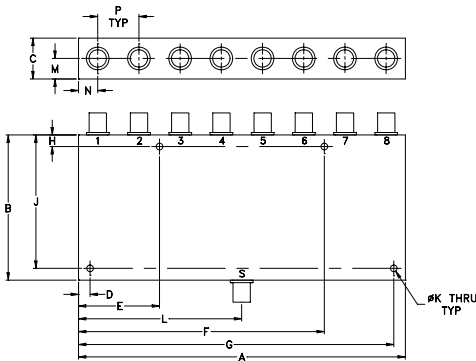
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.875W max.
DC Current	1A(125mA for each port)

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

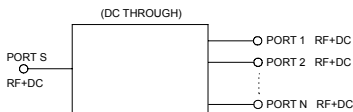
Outline Drawing



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, 27 dB typ.
- good amplitude unbalance, 0.3 dB typ.
- rugged shielded case

Applications

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



Generic photo used for illustration purposes only

CASE STYLE: Z41

Connectors	Model
BNC	ZB8PD-242-75+

+RoHS Compliant

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

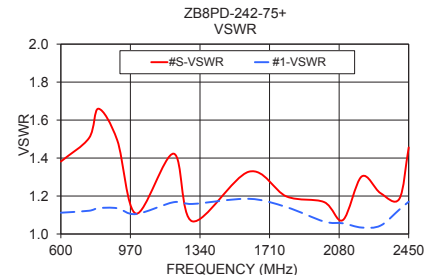
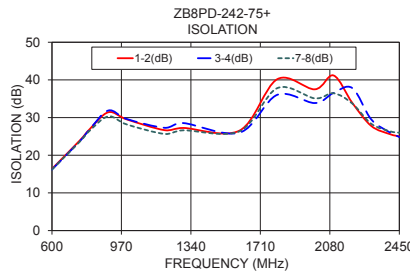
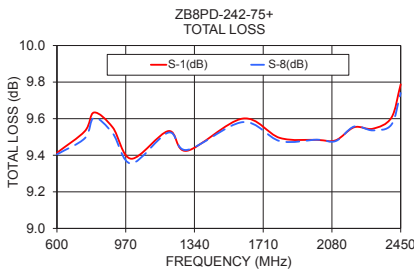
Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		600		2450	MHz
Insertion Loss (Above 9.0 dB)	600 - 2450	—	0.7	1.4	dB
Isolation	600 - 800	14	20	—	dB
	800 - 2200	22	27	—	
	2200-2450	19	25	—	
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	3-4	5-6	7-8				
600.00	9.41	9.39	9.37	9.39	9.36	9.40	0.08	16.38	16.20	16.15	16.22	0.72	1.38	1.11	1.13
750.00	9.53	9.52	9.49	9.51	9.47	9.49	0.06	24.01	23.80	23.54	23.69	0.61	1.51	1.12	1.12
800.00	9.63	9.61	9.59	9.61	9.59	9.61	0.06	26.87	26.82	26.41	26.47	0.60	1.66	1.14	1.14
900.00	9.55	9.53	9.53	9.53	9.52	9.52	0.04	31.41	31.87	31.07	30.31	0.65	1.49	1.14	1.16
1000.00	9.38	9.37	9.37	9.38	9.38	9.35	0.04	29.48	29.59	29.30	28.15	0.69	1.11	1.10	1.13
1200.00	9.53	9.53	9.54	9.54	9.55	9.52	0.03	26.65	27.28	27.18	25.66	0.82	1.42	1.17	1.19
1300.00	9.42	9.42	9.43	9.42	9.46	9.43	0.05	27.24	28.54	28.48	26.62	0.84	1.07	1.16	1.17
1500.00	9.57	9.57	9.60	9.59	9.62	9.57	0.07	24.72	24.72	24.69	24.62	1.22	1.38	1.18	1.21
1800.00	9.49	9.52	9.60	9.59	9.61	9.48	0.15	40.19	36.04	36.20	37.81	1.10	1.20	1.14	1.16
1900.00	9.45	9.47	9.58	9.56	9.58	9.42	0.18	40.46	36.44	37.28	37.86	1.11	1.13	1.10	1.11
2000.00	9.48	9.52	9.63	9.61	9.67	9.49	0.20	37.50	33.85	34.37	35.10	1.29	1.17	1.07	1.08
2100.00	9.48	9.52	9.64	9.61	9.69	9.48	0.22	41.17	36.55	36.45	36.46	1.45	1.07	1.06	1.08
2200.00	9.55	9.61	9.73	9.71	9.79	9.56	0.24	33.87	37.82	36.48	33.71	1.63	1.30	1.03	1.06
2300.00	9.54	9.60	9.73	9.70	9.80	9.54	0.26	27.80	29.55	29.06	28.36	2.08	1.22	1.04	1.07
2400.00	9.61	9.69	9.81	9.80	9.85	9.57	0.29	25.60	26.04	25.60	26.37	2.38	1.18	1.13	1.15
2450.00	9.79	9.89	10.00	10.01	10.05	9.74	0.30	24.90	24.80	24.48	25.90	3.39	1.46	1.17	1.18

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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