

DC Pass

Power Splitter/Combiner

8 Way-0° 50Ω 3200 to 6200 MHz

ZB8PD-622N+



Maximum Ratings

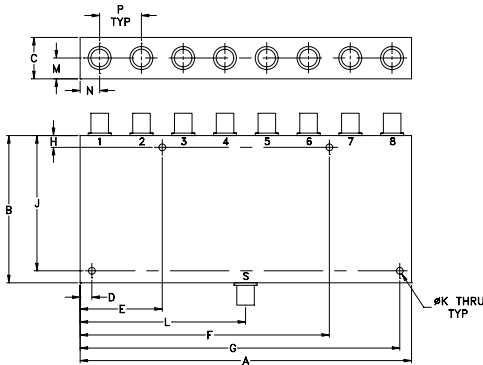
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.875W max.
DC Current	1.6A(200mA for each port)

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

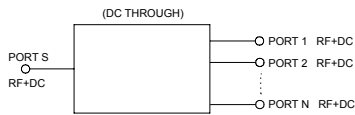
Outline Drawing



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
- good isolation, 26 dB typ.
- good output VSWR, 1.22:1 typ.

Applications

- ISM applications
- SATCOM
- WIMAX
- radar

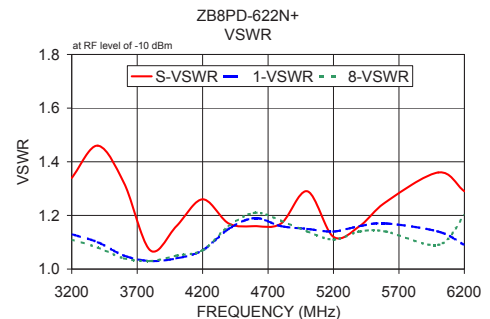
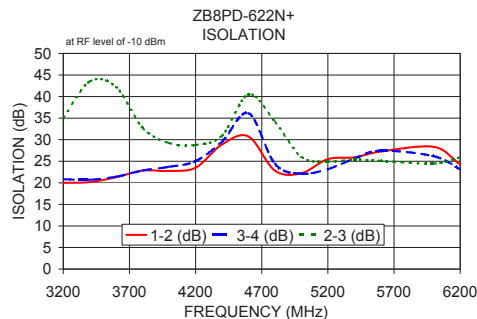
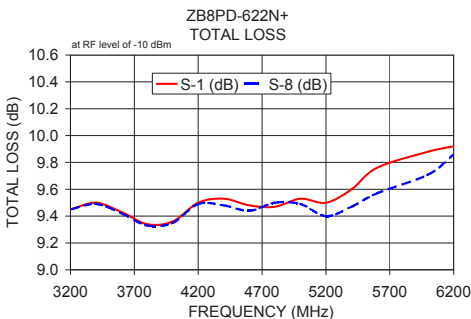
Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		3200		6200	MHz
Insertion Loss (above theoretical 9.0 dB)	3200-6200	—	0.8	1.8	dB
Isolation	3200-6200	16	26	—	dB
Phase Unbalance	3200-6200	—	5	10	Degree
Amplitude Unbalance	3200-6200	—	0.4	0.7	dB
VSWR (Port S)	3200-6200	—	1.5	1.9	:1
VSWR (Port 1-8)	3200-6200	—	1.22	1.6	: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					
3200.00	9.45	9.50	9.39	9.37	9.41	9.45	0.15	20.00	34.95	20.83	20.64	3.02	1.34	1.13	1.11				
3400.00	9.50	9.55	9.46	9.45	9.47	9.49	0.13	20.17	43.51	20.71	20.63	3.12	1.46	1.10	1.08				
3600.00	9.43	9.47	9.38	9.42	9.41	9.42	0.09	21.30	42.20	21.42	21.46	3.24	1.32	1.05	1.04				
3800.00	9.34	9.37	9.39	9.43	9.42	9.33	0.10	22.84	32.77	22.86	22.61	3.63	1.07	1.03	1.03				
4000.00	9.36	9.39	9.52	9.61	9.55	9.35	0.26	22.75	29.23	23.70	22.36	4.15	1.16	1.04	1.05				
4200.00	9.50	9.52	9.84	9.86	9.85	9.49	0.37	23.51	28.78	25.03	23.27	4.75	1.26	1.07	1.07				
4400.00	9.53	9.63	9.78	9.79	9.76	9.48	0.32	28.89	30.93	29.55	28.10	5.90	1.17	1.15	1.16				
4600.00	9.48	9.59	9.67	9.62	9.68	9.44	0.24	30.74	40.51	36.15	31.90	2.15	1.16	1.19	1.21				
4800.00	9.47	9.63	9.71	9.56	9.74	9.50	0.27	22.81	34.14	24.40	22.92	2.66	1.17	1.16	1.18				
5000.00	9.53	9.67	9.59	9.53	9.59	9.49	0.18	22.24	26.02	22.12	22.25	3.70	1.29	1.15	1.14				
5200.00	9.50	9.73	9.54	9.45	9.52	9.40	0.39	25.50	24.93	23.18	25.72	3.38	1.12	1.14	1.11				
5400.00	9.60	9.75	9.56	9.45	9.57	9.47	0.41	25.91	25.38	25.61	25.28	3.06	1.16	1.16	1.14				
5600.00	9.76	9.63	9.59	9.51	9.65	9.57	0.29	27.25	25.10	27.47	25.47	4.27	1.25	1.17	1.14				
6000.00	9.88	9.89	9.88	10.09	9.95	9.71	0.38	28.34	24.46	26.18	27.00	5.31	1.36	1.14	1.09				
6200.00	9.92	9.95	9.97	10.15	10.05	9.86	0.29	24.25	25.90	23.13	23.93	5.58	1.29	1.09	1.20				

1. Total Loss = Insertion Loss + 9dB splitter 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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