

DC Pass

# Power Splitter/Combiner

## ZB8PD-622-S+

8 Way-0° 50Ω 3200 to 6200 MHz



Generic photo used for illustration purposes only

CASE STYLE: Z41

Connectors	Model
SMA	ZB8PD-622-S+

**+RoHS Compliant**

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

### Maximum Ratings

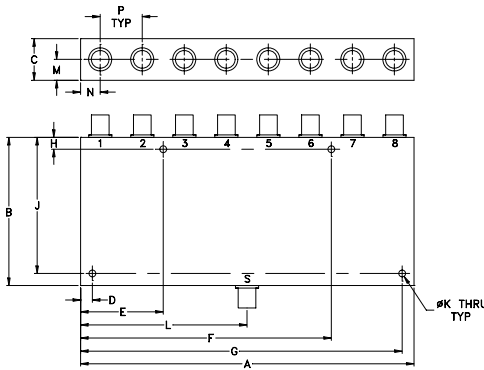
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.875W max.
DC Current	1.6A(200mA for each port)

Permanent damage may occur if any of these limits are exceeded.

### Coaxial Connections

SUMPORT	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	

### Features

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

### Applications

- ISM applications
- SATCOM
- WIMAX
- radar

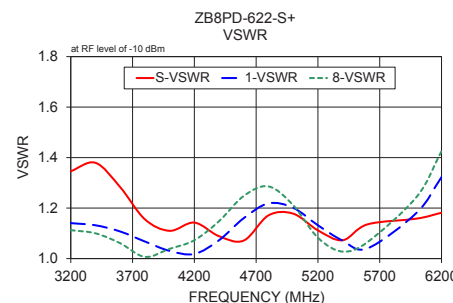
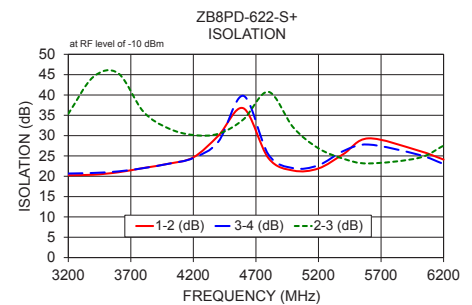
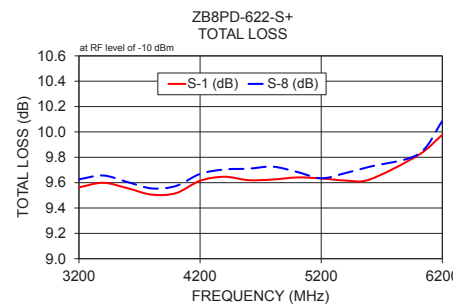
### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 9 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)	
	Typ.	Min.	Typ.	Max.	Max.	Max.	S Typ.	OUT Typ. Max.
$f_L$ - $f_U$								
3200-6200	26	16	0.8	1.8	6	0.7	1.5	1.9 1.22 1.6

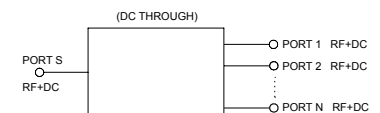
### Typical Performance Data

Freq. (MHz)	Total Loss <sup>1</sup> (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	9.56	9.57	9.57	9.53	9.57	9.63	0.10	20.26	35.36	20.68	20.64	1.32	1.35	1.14	1.11
3400.00	9.60	9.61	9.61	9.58	9.59	9.66	0.08	20.38	44.44	20.82	20.65	1.39	1.38	1.13	1.10
3600.00	9.56	9.57	9.58	9.55	9.55	9.61	0.05	20.98	45.32	21.20	21.20	1.44	1.28	1.11	1.06
3800.00	9.51	9.54	9.57	9.55	9.56	9.55	0.10	22.03	35.90	22.00	22.13	1.55	1.16	1.07	1.01
4000.00	9.52	9.57	9.68	9.66	9.69	9.57	0.21	23.08	31.79	23.07	22.98	1.64	1.11	1.03	1.04
4200.00	9.61	9.70	9.88	9.85	9.88	9.67	0.30	24.66	30.15	24.50	24.37	1.68	1.14	1.02	1.07
4400.00	9.65	9.75	9.90	9.84	9.88	9.70	0.25	29.99	30.46	28.52	28.64	1.72	1.09	1.07	1.15
4600.00	9.62	9.73	9.86	9.76	9.87	9.71	0.25	36.73	33.99	39.79	39.13	1.87	1.07	1.16	1.25
4800.00	9.62	9.74	9.85	9.70	9.89	9.73	0.26	24.46	40.77	25.34	25.31	1.95	1.17	1.22	1.29
5000.00	9.64	9.76	9.85	9.68	9.84	9.68	0.21	21.40	31.97	21.99	22.06	2.30	1.18	1.20	1.21
5200.00	9.63	9.74	9.81	9.65	9.77	9.63	0.18	21.92	26.88	22.71	22.69	2.68	1.11	1.13	1.08
5400.00	9.62	9.73	9.76	9.59	9.77	9.68	0.17	25.48	24.31	26.22	26.00	2.81	1.07	1.07	1.03
5600.00	9.63	9.75	9.76	9.61	9.78	9.73	0.17	29.33	23.16	27.80	27.82	2.66	1.14	1.04	1.06
6000.00	9.82	9.96	9.94	9.93	9.89	9.82	0.14	26.30	24.51	25.30	25.23	3.13	1.16	1.18	1.25
6200.00	9.98	10.11	10.08	10.10	10.10	10.09	0.19	24.11	27.54	23.03	22.98	3.66	1.18	1.32	1.43

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



### electrical schematic



### 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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