

# Power Splitter/Combiner

## ZB8PD-362+

8 Way-0° 50Ω 600 to 3600 MHz



Generic photo used for illustration purposes only

SMA version shown  
CASE STYLE: Z41

Connectors	Model
SMA	ZB8PD-362-S+
N-TYPE	ZB8PD-362-N+

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

### Maximum Ratings

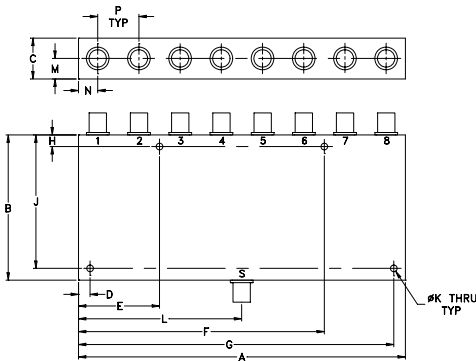
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.875W max.
DC Current	1.2A(150mA for each port)

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

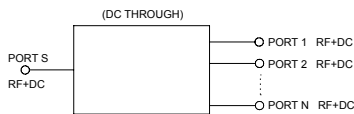
### Outline Drawing



### 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 3600 MHz
- low insertion loss, 1.0 dB typ.
- good isolation, 25 dB typ.
- rugged shielded case

### Applications

- WiMax
- LTE
- WCDMA
- Cellular Infrastructure

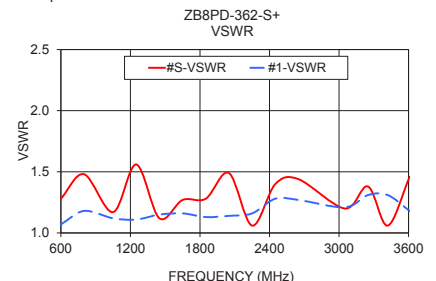
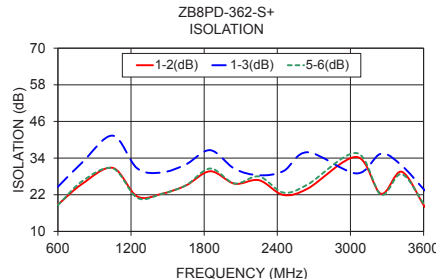
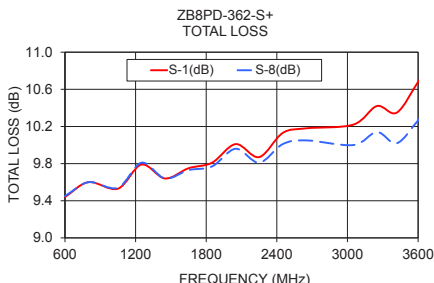
### Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
<b>Frequency Range</b>		600		3600	MHz
<b>Insertion Loss</b> (above theoretical 9.0 dB)	600 - 1600	—	0.7	1.0	dB
	1600 - 2600	—	1.0	1.5	
	2600 - 3600	—	1.6	2.1	
<b>Isolation</b>	600 - 1600	16	20	—	dB
	1600 - 2600	18	23	—	
	2600 - 3600	16	20	—	
<b>Phase Unbalance</b>	600 - 1600	—	2	5	Degree
	1600 - 2600	—	4	9	
	2600 - 3600	—	5	10	
<b>Amplitude Unbalance</b>	600 - 1600	—	0.1	0.5	dB
	1600 - 2600	—	0.2	0.7	
	2600 - 3600	—	0.4	0.9	
<b>VSWR (Port S)</b>	600 - 1600	—	1.5	1.8	:1
	1600 - 2600	—	1.4	1.7	
	2600 - 3600	—	1.5	1.8	
<b>VSWR (Port 1-8)</b>	600 - 1600	—	1.1	1.4	:1
	1600 - 2600	—	1.3	1.6	
	2600 - 3600	—	1.4	1.7	

### Typical Performance Data

Freq. (MHz)	Total Loss <sup>1</sup> (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	1-3	3-4	5-6				
600.00	9.44	9.41	9.41	9.44	9.42	9.45	0.05	18.77	24.61	18.75	18.60	1.01	1.28	1.07	1.06
800.00	9.60	9.58	9.57	9.59	9.59	9.60	0.04	25.59	32.59	26.26	26.46	1.28	1.48	1.18	1.16
1050.00	9.53	9.52	9.51	9.52	9.54	9.54	0.04	30.80	41.36	31.01	30.66	1.77	1.17	1.12	1.11
1250.00	9.79	9.79	9.79	9.78	9.81	9.81	0.04	21.45	30.67	21.37	21.00	2.01	1.56	1.11	1.12
1450.00	9.64	9.63	9.64	9.64	9.66	9.64	0.04	22.29	29.28	22.13	22.27	2.41	1.12	1.15	1.16
1650.00	9.75	9.74	9.74	9.74	9.76	9.73	0.05	25.03	31.94	25.29	25.10	2.77	1.27	1.16	1.17
1850.00	9.81	9.80	9.80	9.81	9.82	9.77	0.07	29.69	36.60	30.51	30.59	3.11	1.28	1.13	1.12
2050.00	10.01	10.01	10.01	10.00	10.02	9.96	0.07	25.62	30.49	25.99	25.69	3.56	1.49	1.14	1.16
2250.00	9.87	9.85	9.85	9.85	9.88	9.81	0.10	26.77	28.39	27.03	27.99	3.96	1.06	1.16	1.18
2450.00	10.13	10.10	10.12	10.09	10.08	10.01	0.12	21.94	29.74	22.02	22.71	4.40	1.40	1.28	1.27
2650.00	10.18	10.15	10.19	10.14	10.14	10.05	0.15	24.03	35.92	24.20	25.39	4.81	1.44	1.27	1.27
3050.00	10.22	10.19	10.23	10.11	10.18	10.00	0.23	34.38	28.99	36.41	35.65	5.36	1.20	1.21	1.17
3250.00	10.42	10.36	10.40	10.30	10.35	10.14	0.28	22.35	35.42	22.19	22.05	5.48	1.38	1.31	1.25
3420.00	10.35	10.26	10.28	10.17	10.20	10.02	0.33	29.53	31.57	29.62	28.76	5.61	1.06	1.31	1.25
3610.00	10.70	10.60	10.59	10.52	10.44	10.28	0.42	18.01	23.41	17.71	18.52	6.09	1.46	1.18	1.16

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



### Notes

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