

Power Splitter/Combiner

8 Way-0° 50Ω 2000 to 11000 MHz

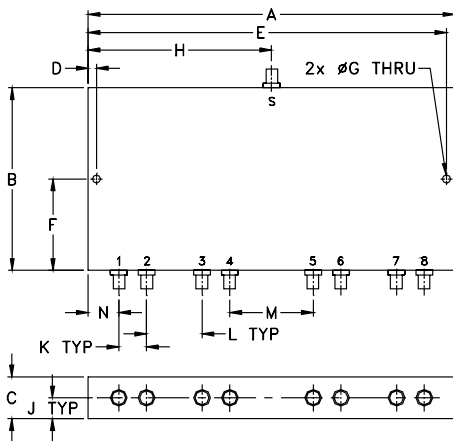
Maximum Ratings

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	1.2A(150mA for each port)
Permanent damage may occur if any of these limits are exceeded.	

Coaxial Connections

SUM PORT	S(COM)
PORT 1,2,3,.....,8	1,2,3,.....,8

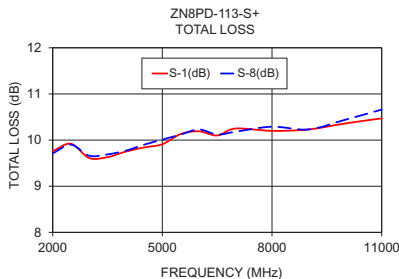
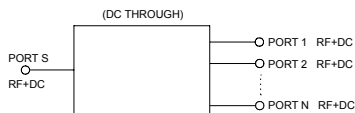
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
6.60	3.28	.75	.150	6.45	1.64	.144
167.64	83.31	19.05	3.81	163.83	41.66	3.66
H	J	K	L	M	N	wt
3.30	.38	.500	1.000	1.500	0.550	grams
83.82	9.65	12.70	25.4	38.1	13.97	360

Electrical schematic



Features

- wideband, 2000 to 11000 MHz
- low insertion loss, 1.7 dB typ.
- low amplitude unbalance, 0.3 dB typ.
- DC PASS from sum port to output ports

Applications

- high band PCS
- UNII
- WIMAX
- WiFi
- bluetooth

Electrical Specifications at 25°C

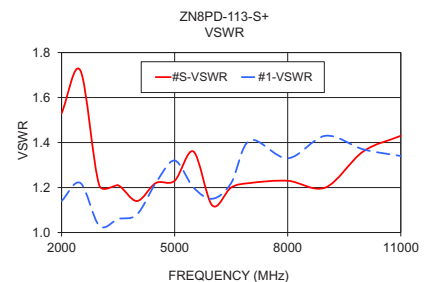
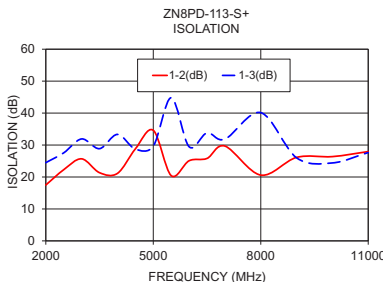
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range					
Insertion Loss (above theoretical 9.0 dB)	2000-4600	—	0.9	1.4	dB
	4600-7200	—	1.3	1.9	
	7200-11000	—	1.9	2.6	
Isolation	2000-4600	15	20	—	dB
	4600-7200	17	22	—	
	7200-11000	15	20	—	
Phase Unbalance	2000-4600	—	3	6	Degree
	4600-7200	—	6	10	
	7200-11000	—	8	15	
Amplitude Unbalance	2000-4600	—	0.3	0.5	dB
	4600-7200	—	0.4	0.7	
	7200-11000	—	0.5	0.9	
VSWR (Port S)	2000-4600	—	1.55	1.95	:1
	4600-7200	—	1.30	1.60	
	7200-11000	—	1.50	1.95	
VSWR (Port 1-8)	2000-4600	—	1.33	1.60	:1
	4600-7200	—	1.33	1.60	
	7200-11000	—	1.45	2.2	

1. Over -55°C to +55°C. Derate linearly to 20% of rating at 100°C

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	1-3	3-4	5-6				
2000	9.76	9.75	9.75	9.77	9.68	9.71	0.09	17.49	24.49	28.33	19.30	1.68	1.53	1.14	1.14
2500	9.92	9.91	9.87	9.89	9.87	9.90	0.06	22.28	27.55	33.24	23.67	1.42	1.72	1.22	1.19
3000	9.61	9.62	9.57	9.61	9.60	9.66	0.09	25.68	31.91	41.40	22.10	2.22	1.21	1.03	1.06
3500	9.63	9.67	9.65	9.69	9.66	9.69	0.06	21.34	28.87	38.51	18.63	3.01	1.21	1.06	1.09
4000	9.75	9.83	9.77	9.78	9.81	9.77	0.08	21.13	33.33	33.96	18.57	3.49	1.14	1.08	1.09
4500	9.84	9.94	9.97	9.84	9.97	9.90	0.13	28.80	28.72	32.85	23.34	2.87	1.22	1.22	1.26
5000	9.91	9.99	9.91	9.81	9.93	10.01	0.20	34.61	29.63	32.93	40.77	3.18	1.23	1.32	1.37
5500	10.13	10.25	10.17	10.05	10.14	10.12	0.20	20.43	44.81	34.93	21.51	4.80	1.36	1.20	1.19
6000	10.19	10.28	10.27	10.15	10.47	10.23	0.33	25.08	29.47	35.44	27.44	6.40	1.12	1.15	1.15
6500	10.10	10.18	10.17	10.07	10.25	10.12	0.24	25.81	33.82	34.91	28.84	5.11	1.20	1.22	1.21
7000	10.25	10.33	10.17	10.13	10.29	10.18	0.32	29.68	31.83	38.17	29.47	5.38	1.22	1.41	1.35
8000	10.20	10.21	10.30	10.29	10.40	10.29	0.22	20.59	40.14	35.50	20.44	6.39	1.23	1.33	1.27
9000	10.23	10.37	10.27	10.25	10.25	10.23	0.15	26.13	26.00	32.38	23.71	6.47	1.20	1.43	1.36
10000	10.36	10.51	10.49	10.56	10.53	10.44	0.22	26.38	24.40	36.09	24.54	8.13	1.36	1.37	1.26
11000	10.47	10.61	10.76	10.50	10.79	10.66	0.32	27.95	27.65	30.03	28.65	7.25	1.43	1.34	1.30

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



Notes

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ZN8PD-113-S+



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CASE STYLE: UU1676

Connectors	Model
SMA	ZN8PD-113-S+

+RoHS Compliant

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

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