DC Pass

Power Splitter/Combiner

ZN8PD-113-S+

8 Way-0° 50Ω 2000 to 11000 MHz

HT-Series Tight Spot SMA Wrench

Generic photo used for illustration purposes only

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

Maximum Ratings

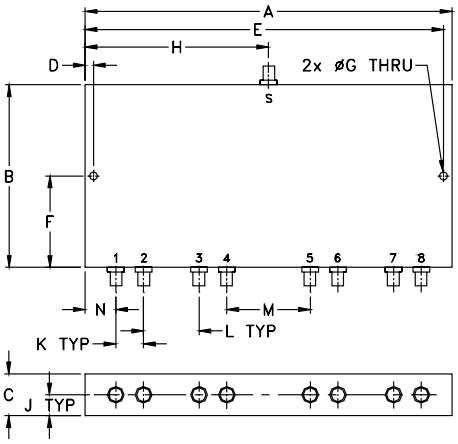
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.875W max.
DC Current	1.2A(150mA for each port)

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

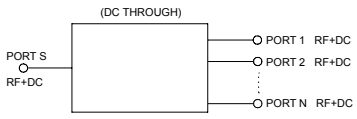


Outline Dimensions (inch / mm)

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

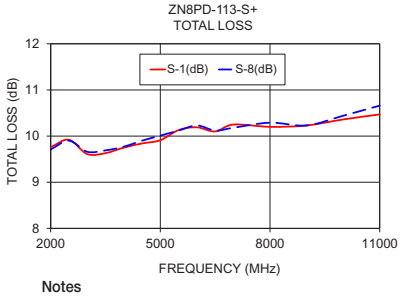
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		2000		11000	MHz
Insertion Loss (above theoretical 9.0 dB)	2000-4600 4600-7200 7200-11000	— — —	0.9 1.3 1.9	1.4 1.9 2.6	dB
Isolation	2000-4600 4600-7200 7200-11000	15 17 15	20 22 20	— — 	dB
Phase Unbalance	2000-4600 4600-7200 7200-11000	—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

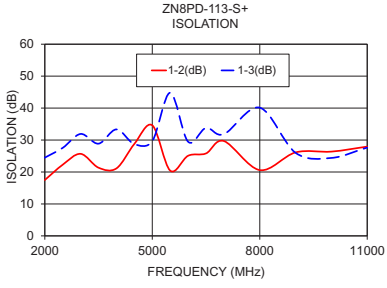
1. Over -55°C to +55°C. Derate linearly to 20% of rating at 100°C

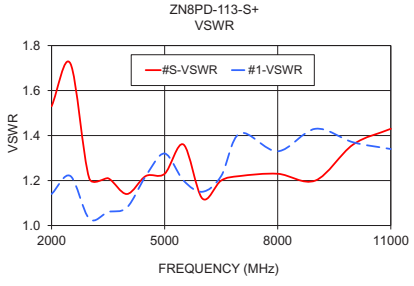
Typical Performance Data

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

A. 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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