

DC Pass

Power Splitter/Combiner

ZN4PD-642W+

4 Way-0° 50Ω 1600 to 6400 MHz

Maximum Ratings

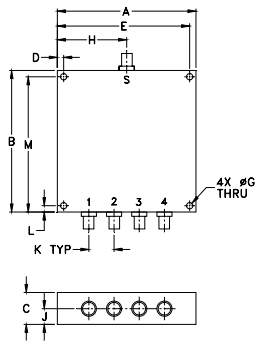
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	1.2W max.
DC Current (each port)	1A max.

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

Coaxial Connections

SUMPORT	S
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
2.75	2.80	.63	.125	2.625	-	.125
69.85	71.12	16.00	3.18	66.68	-	3.18
H	J	K	L	M	wt	
1.38	.31	.500	.125	2.675	grams	
35.05	7.87	12.70	3.18	67.95	140	

Electrical Schematic



Features

- wideband, 1600 to 6400 MHz
- low insertion loss, 1.0 dB typ.
- low amplitude unbalance, 0.1 dB typ.
- low phase unbalance, 2deg. typ.
- excellent output VSWR, 1.15:1 typ.
- DC Pass from sum port to all output ports

Applications

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

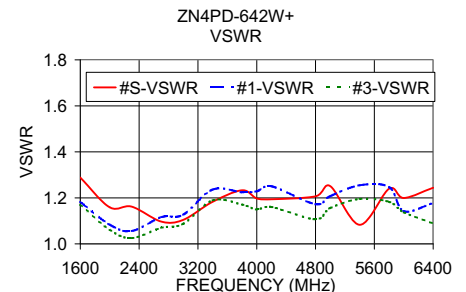
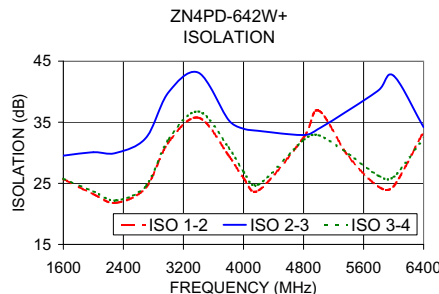
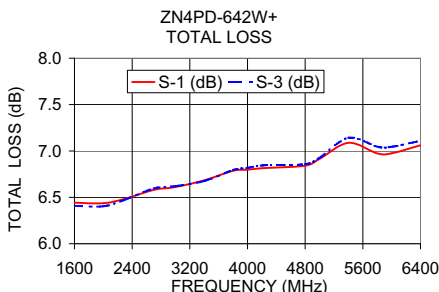
Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		1600		6400	MHz
Insertion Loss (above theoretical 6.0 dB)	1600 - 4200 4200 - 6400	— —	0.7 1.0	1.2 1.6	dB
Isolation	1600 - 4200 4200 - 6400	17 18	23 25	—	dB
Phase Unbalance	1600 - 4200 4200 - 6400	— —	2 4	5 8	Degree
Amplitude Unbalance	1600 - 4200 4200 - 6400	— —	0.1 0.2	0.4 0.7	dB
VSWR (Port S)	1600 - 4200 4200 - 6400	— —	1.25 1.2	—	:1
VSWR (Port 1-4)	1600 - 4200 4200 - 6400	— —	1.2 1.15	—	:1

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)				Amp. Unb. (dB)	Isolation (dB)			Phase Unb. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	2-3	3-4						
1600	6.44	6.41	6.42	6.43	0.03	25.70	29.53	25.76	0.98	1.29	1.18	1.16	1.17	1.16
2000	6.44	6.40	6.42	6.43	0.03	23.23	30.09	23.68	1.19	1.16	1.08	1.06	1.06	1.06
2300	6.48	6.48	6.46	6.47	0.03	21.81	29.98	22.21	1.42	1.16	1.06	1.02	1.03	1.02
2700	6.58	6.60	6.57	6.56	0.03	24.31	32.44	24.60	1.45	1.10	1.12	1.06	1.07	1.07
3000	6.61	6.62	6.60	6.58	0.04	31.71	39.88	32.19	1.67	1.10	1.13	1.07	1.09	1.09
3400	6.68	6.68	6.66	6.64	0.04	35.74	43.12	36.76	1.99	1.18	1.24	1.17	1.19	1.18
3800	6.79	6.79	6.77	6.72	0.07	29.58	35.39	30.88	2.21	1.23	1.22	1.16	1.17	1.15
4000	6.80	6.82	6.78	6.74	0.08	25.87	33.94	26.91	2.25	1.20	1.23	1.15	1.15	1.14
4200	6.81	6.84	6.79	6.75	0.10	23.81	33.58	24.81	2.30	1.19	1.25	1.16	1.16	1.15
4800	6.84	6.86	6.86	6.81	0.05	32.49	32.91	32.09	2.57	1.21	1.17	1.07	1.11	1.10
5000	6.91	6.93	6.94	6.89	0.05	36.92	33.92	32.89	2.63	1.25	1.21	1.11	1.16	1.14
5400	7.09	7.14	7.12	7.07	0.07	29.36	36.97	29.80	3.02	1.08	1.25	1.17	1.20	1.18
5800	6.97	7.05	7.01	6.92	0.13	24.44	40.24	26.23	3.46	1.24	1.25	1.18	1.18	1.19
6000	6.97	7.04	7.02	6.95	0.10	24.50	42.61	26.05	3.78	1.20	1.14	1.14	1.14	1.15
6400	7.06	7.11	7.09	7.05	0.06	33.44	34.19	32.35	4.55	1.24	1.18	1.06	1.09	1.08

1. Total Loss = Insertion Loss + 6dB splitter loss.



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For detailed performance specs & shopping online see web site

REV. A
M134156
ED-14603
ZN4PD-642W+
WP/CP/AM
120109



CASE STYLE: UU182

Connectors	Model	Price	Qty.
SMA	ZN4PD-642W-S+	\$119.95	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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