Coaxial

Power Splitter/Combiner

6 Way-0° 50Ω 1800 to 6000 MHz

ZN6PD-63W+

CASE STYLE: UU586

Connectors	Model	Price	Qty.
SMA	ZN6PD-63W-S+	$169.95 ea.	(1-9)

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

The +Suffix has been added in order to identify 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	1.5W max.

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

Coaxial Connections

SUM PORT	S
PORT 1,2,3,4,5,6	1,2,3,4,5,6

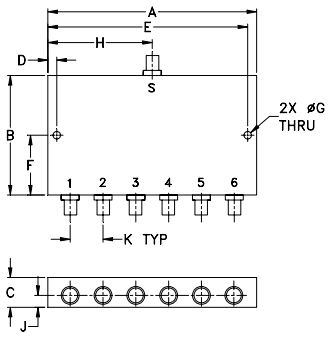
Features

- wideband, 1800 to 6000 MHz
- Low insertion loss, 1.0 dB typ.
- Good isolation, 20 dB typ.
- rugged, shielded case
- up to 10W power input as splitter

Applications

- high band PCS
- UNII
- WiMAX
- WiFi
- bluetooth

Outline Drawing

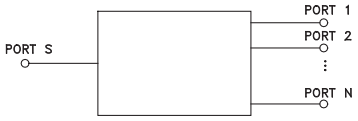


Outline Dimensions (inch / mm)

A	B	C	D	E	F
3.50	3.00	.63	.130	3.380	1.50
88.90	76.20	16.00	3.30	85.85	38.10

G	H	J	K	wt
.125	1.75	.32	.500	grams
3.18	44.45	8.13	12.70	180

Electrical Schematic



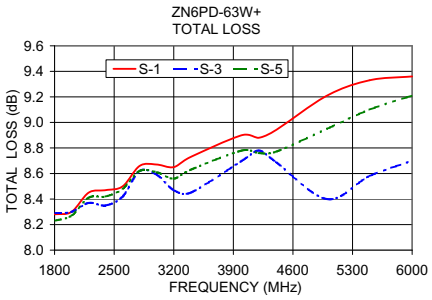
Electrical Specifications at 25°C

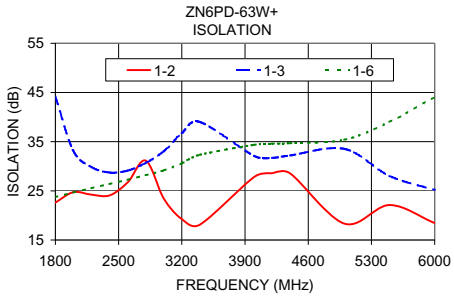
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		1800		6000	MHz
Insertion Loss (above theoretical 7.8 dB)	1800 - 3000 3000 - 6000	— —	0.80 1.5	1.3 2.1	dB
Isolation	1800 - 6000	15	20	—	dB
Phase Unbalance	1800 - 3000 3000 - 6000	— —	5 9	9 15	Degree
Amplitude Unbalance	1800 - 3000 3000 - 6000	— —	0.15 0.8	0.5 1.5	dB
VSWR (Port S)	1800 - 6000	—	1.3	—	:1
VSWR (Port 1-4)	1800 - 6000	—	1.3	—	:1

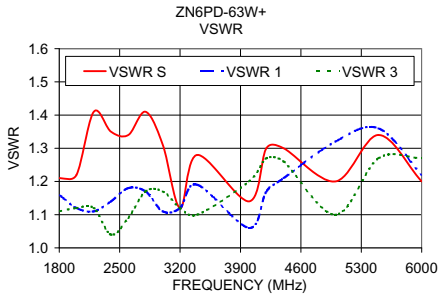
Typical Performance Data

Frequency (MHz)	Total Loss[1] (dB)			Amplitude Unbalance (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 3
	S-1	S-3	S-5		1-2	1-3	1-6				
1800.00	8.28	8.29	8.23	0.09	22.61	44.15	23.72	2.63	1.21	1.16	1.11
2000.00	8.30	8.30	8.27	0.06	24.72	33.07	24.64	3.54	1.22	1.12	1.12
2200.00	8.45	8.37	8.41	0.09	24.21	29.83	25.53	4.08	1.41	1.11	1.12
2400.00	8.47	8.35	8.42	0.13	24.07	28.74	26.37	4.12	1.35	1.14	1.04
2600.00	8.50	8.42	8.48	0.11	26.71	29.12	27.24	4.26	1.34	1.18	1.09
2800.00	8.66	8.62	8.62	0.14	31.14	30.66	28.17	4.71	1.41	1.17	1.17
3000.00	8.67	8.59	8.61	0.14	23.42	33.06	29.14	5.27	1.31	1.11	1.17
3200.00	8.65	8.47	8.56	0.20	19.25	36.71	30.60	5.57	1.12	1.12	1.12
3400.00	8.73	8.45	8.63	0.31	18.12	39.00	32.33	5.40	1.28	1.19	1.10
4000.00	8.90	8.70	8.78	0.24	27.80	32.12	34.35	4.26	1.14	1.06	1.20
4200.00	8.88	8.78	8.76	0.17	28.59	31.71	34.59	5.46	1.30	1.17	1.27
4400.00	8.94	8.69	8.77	0.28	28.53	32.20	34.69	6.92	1.30	1.21	1.26
5000.00	9.21	8.40	8.95	0.84	18.33	33.54	35.39	6.74	1.20	1.32	1.10
5500.00	9.33	8.58	9.10	0.79	22.11	28.02	39.03	5.81	1.34	1.36	1.27
6000.00	9.36	8.70	9.21	0.73	18.45	25.19	44.05	7.06	1.20	1.22	1.27

1. Total Loss = Insertion Loss + 7.8dB theoretical splitter loss.







Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. **2.** Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. **3.** The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

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