

Power Splitter/Combiner

ZN4PD1-63-S+

4 Way-0° 50Ω 2000 to 6000 MHz

Maximum Ratings

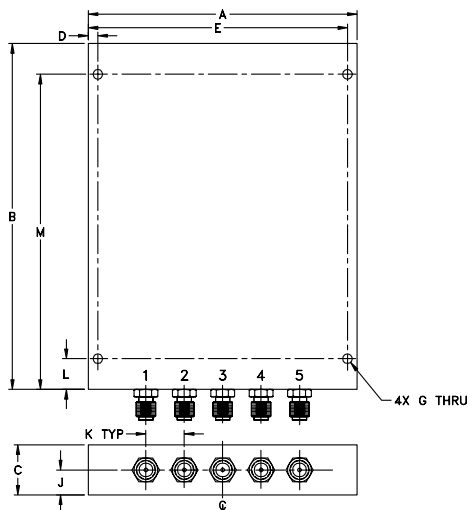
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	1W max.
DC Current	1.0 A (250mA for each port)

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

Coaxial Connections

SUM PORT	3
PORT 1	1
PORT 2	2
PORT 3	4
PORT 4	5

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
3.50	4.50	.65	.125	3.375	--	.125
88.90	114.30	16.51	3.18	85.73	--	3.18
H	J	K	L	M	wt	
--	.33	.50	.400	4.100	grams	
--	8.38	12.70	10.16	104.14	288	

Features

- wide frequency band, 2000 to 6000 MHz
- low insertion loss, 0.7 dB typ.
- low amplitude unbalance 0.1 dB typ.
- low phase unbalance 1.0 deg. typ.

Applications

- high band PCS
- UNII
- ISM 802.11A



Generic photo used for illustration purposes only

CASE STYLE: UU846

Connectors	Model
SMA	ZN4PD1-63-S+

+RoHS Compliant

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

Electrical Specifications

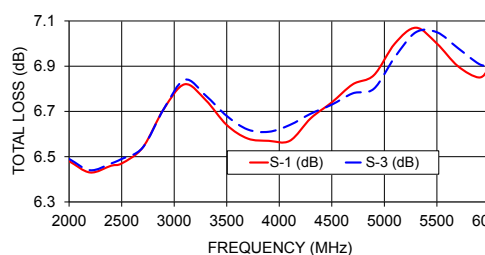
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 6.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)	
	Typ.	Min.	Typ.	Max.	Max.	Max.	S Typ.	OUT Typ.
2000-6000	26	17	0.7	1.3	5	0.4	1.20	1.15

Typical Performance Data

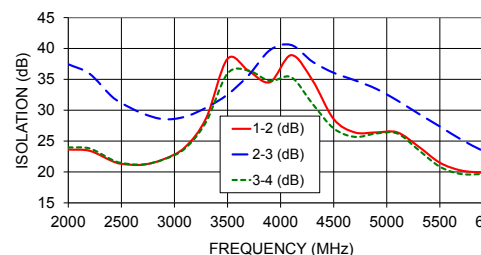
Freq. (MHz)	Total Loss ¹ (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	2-3	3-4						
2000.00	6.48	6.48	6.49	6.45	0.03	23.63	37.44	23.98	0.64	1.29	1.25	1.25	1.24	1.25
2200.00	6.43	6.43	6.44	6.39	0.05	23.43	35.91	23.81	0.59	1.05	1.17	1.18	1.17	1.16
2400.00	6.46	6.46	6.47	6.42	0.05	21.86	32.38	22.07	0.66	1.11	1.12	1.14	1.13	1.12
2700.00	6.54	6.53	6.54	6.48	0.06	21.17	29.48	21.21	0.71	1.14	1.20	1.21	1.19	1.18
2900.00	6.71	6.70	6.71	6.65	0.06	22.08	28.54	22.04	0.70	1.15	1.24	1.24	1.23	1.21
3300.00	6.75	6.75	6.77	6.68	0.08	28.77	30.43	28.16	1.10	1.23	1.25	1.23	1.23	1.20
3700.00	6.58	6.62	6.62	6.52	0.10	36.35	35.69	36.41	1.66	1.07	1.10	1.10	1.09	1.09
4100.00	6.57	6.62	6.64	6.52	0.12	38.92	40.56	35.34	1.54	1.04	1.02	1.01	1.03	1.04
4500.00	6.74	6.72	6.73	6.67	0.07	28.57	36.06	27.06	1.34	1.19	1.06	1.06	1.05	1.09
4900.00	6.86	6.80	6.80	6.78	0.09	26.41	33.47	26.23	1.71	1.18	1.11	1.13	1.12	1.12
5300.00	7.07	7.04	7.05	6.96	0.11	24.11	29.43	23.55	1.54	1.21	1.11	1.11	1.11	1.08
5500.00	7.00	7.05	7.05	6.88	0.17	21.50	27.37	20.85	1.58	1.28	1.12	1.12	1.14	1.09
5700.00	6.90	6.98	6.98	6.76	0.21	20.24	25.26	19.67	1.68	1.30	1.16	1.16	1.19	1.13
5900.00	6.85	6.91	6.91	6.72	0.19	19.87	23.47	19.64	1.36	1.25	1.19	1.17	1.21	1.18
6000.00	6.89	6.92	6.90	6.74	0.18	19.46	22.75	19.42	1.20	1.20	1.20	1.17	1.21	1.20

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

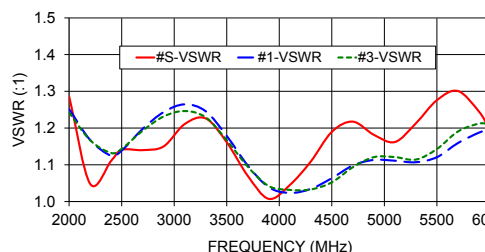
ZN4PD1-63-S+ TOTAL LOSS



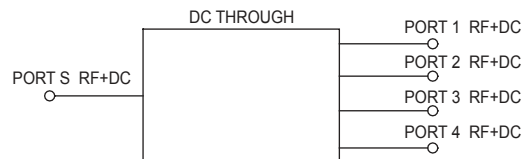
ZN4PD1-63-S+ ISOLATION



ZN4PD1-63-S+ VSWR



Electrical Schematic



Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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