

Coaxial

Power Splitter/Combiner

4 Way-0° 50Ω 500 to 5000 MHz

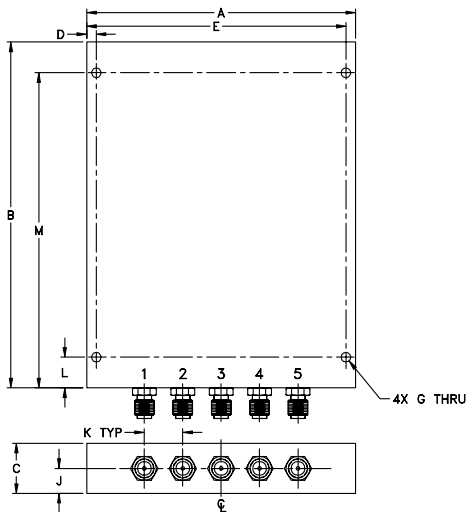
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.75W max.

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

- wideband, 500 to 5000 MHz
- high isolation, 23 dB typ.
- good input matching VSWR, 1.3:1 typ.
- up to 10W power input as splitter

Applications

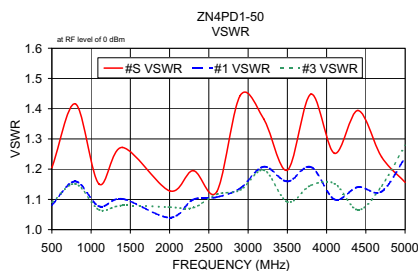
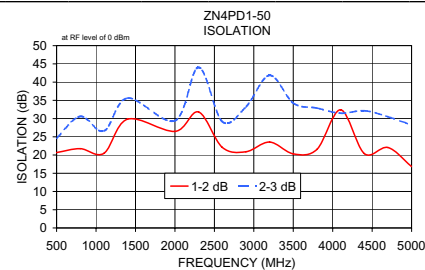
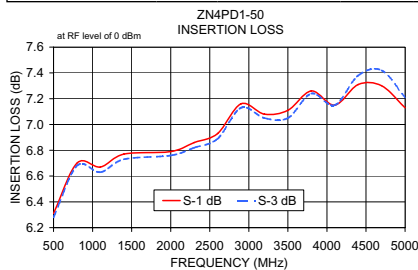
- UHF TV
- cellular/ISM/GSM
- satellite distribution
- GPS/L-BAND (MARSAT)
- PCS/DCS/UMTS
- ISM
- MMDS
- SATCOM

Splitter Electrical Specifications

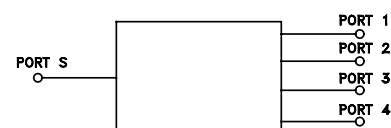
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 6.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)	
	Typ.	Min.	Typ.	Max.			S Typ.	OUT Typ.
f _L -f _U					Max.	Max.		
500-5000	23	13	0.9	1.8	8	0.6	1.3	1.1
500-1600	23	15	0.7	1.4	4	0.6	1.3	1.1
1600-2700	23	17	0.8	1.4	7	0.6	1.3	1.1
2700-3600	22	16	1.1	1.7	7	0.6	1.3	1.1
3700-4800	22	14	1.2	1.7	8	0.6	1.3	1.1

Typical Performance Data

Freq. (MHz)	Insertion Loss (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR				
	S-1	S-2	S-3	S-4		1-2	2-3	3-4		S	1	2	3	4
500.00	6.31	6.31	6.28	6.34	0.06	20.69	24.63	21.07	0.34	1.20	1.08	1.09	1.09	1.10
800.00	6.70	6.68	6.68	6.74	0.06	21.74	30.62	22.16	0.40	1.42	1.16	1.15	1.15	1.16
1100.00	6.67	6.66	6.63	6.69	0.06	20.47	26.59	20.84	0.40	1.15	1.08	1.06	1.07	1.08
1400.00	6.77	6.75	6.73	6.80	0.06	29.86	35.63	29.99	0.28	1.27	1.10	1.09	1.08	1.08
2000.00	6.79	6.79	6.76	6.80	0.04	26.48	29.42	27.14	0.65	1.13	1.04	1.07	1.07	1.05
2300.00	6.86	6.85	6.82	6.88	0.06	31.80	44.04	32.61	0.53	1.20	1.10	1.07	1.07	1.11
2600.00	6.93	6.94	6.89	6.93	0.06	22.10	29.18	22.57	0.54	1.12	1.11	1.13	1.12	1.09
2900.00	7.16	7.15	7.13	7.19	0.05	20.91	33.21	20.86	0.81	1.44	1.14	1.14	1.13	1.15
3200.00	7.08	7.06	7.05	7.12	0.07	23.57	41.88	24.26	0.73	1.37	1.21	1.16	1.20	1.24
3500.00	7.11	7.12	7.05	7.07	0.07	20.33	34.26	20.54	1.16	1.20	1.16	1.15	1.09	1.08
3800.00	7.26	7.29	7.24	7.26	0.05	21.55	32.88	21.45	1.23	1.45	1.21	1.21	1.15	1.17
4100.00	7.15	7.18	7.15	7.17	0.03	32.40	31.46	30.72	1.40	1.25	1.10	1.10	1.15	1.16
4400.00	7.31	7.38	7.38	7.36	0.08	20.40	32.16	19.95	1.20	1.39	1.14	1.16	1.07	1.09
4700.00	7.30	7.37	7.42	7.40	0.12	22.06	30.51	22.00	1.08	1.24	1.13	1.19	1.14	1.16
5000.00	7.13	7.26	7.21	7.09	0.17	16.83	28.25	17.40	1.41	1.16	1.24	1.36	1.28	1.24



electrical schematic



CASE STYLE: UU846

Connectors	Model	Price	Qty.
SMA	ZN4PD1-50-S(+)	\$99.95	(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.

Mini-Circuits®
ISO 9001 ISO 14001 CERTIFIED

ALL NEW
minicircuits.com

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS

REV. A
M96470
ZN4PD1-50
ED-9551/1
LC/TD/CP
070427