

Coaxial

# Power Splitter/Combiner

## ZN4PD1-50

4 Way-0° 50Ω 500 to 5000 MHz

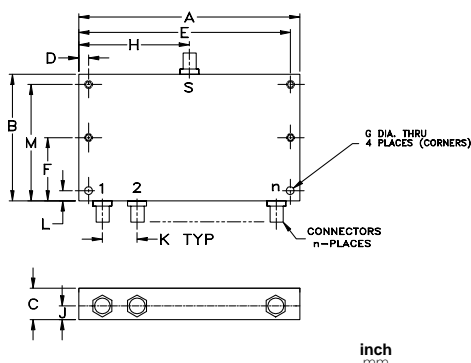
### Maximum Ratings

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 ( )

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

### Features

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

### Applications

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



CASE STYLE: UU846

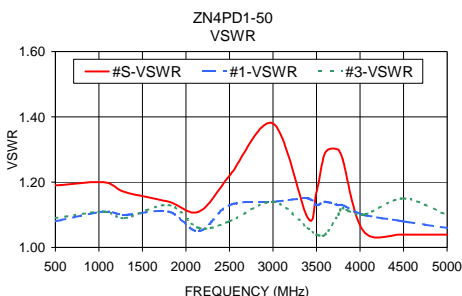
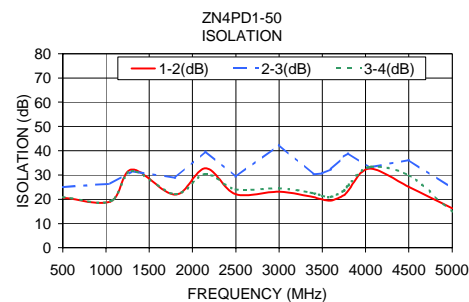
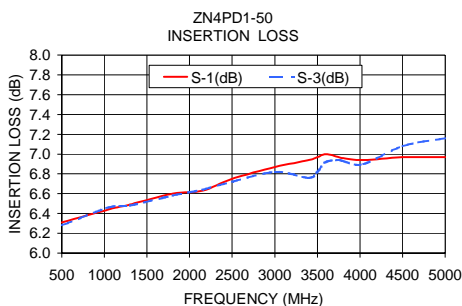
Connectors	Model	Price	Qty.
SMA	ZN4PD1-50-S	\$99.95	(1-9)

### Splitter Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 6 dB		PHASE UNBALANCE (Degrees) Max.	AMPLITUDE UNBALANCE (dB) Max.	VSWR (:1)			
	Typ.	Min.	Typ.	Max.			S	OUT		
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	6.30	6.28	6.33	0.06	20.68	24.99	20.89	0.41	1.19	1.08	1.09	1.09	1.10
1050.00	6.44	6.43	6.46	6.48	0.04	19.02	26.37	19.14	0.70	1.20	1.11	1.10	1.11	1.11
1300.00	6.49	6.47	6.48	6.51	0.04	32.24	31.55	31.63	1.01	1.17	1.10	1.10	1.09	1.09
1800.00	6.60	6.59	6.58	6.59	0.03	21.89	28.82	22.10	1.27	1.14	1.11	1.12	1.13	1.15
2150.00	6.63	6.61	6.64	6.66	0.05	32.72	39.78	30.39	1.79	1.11	1.05	1.07	1.06	1.09
2500.00	6.75	6.74	6.72	6.74	0.03	22.09	29.19	24.06	2.22	1.22	1.13	1.10	1.08	1.08
3000.00	6.87	6.81	6.82	6.85	0.05	23.11	42.46	24.50	2.47	1.38	1.14	1.15	1.14	1.17
3400.00	6.94	6.90	6.76	6.78	0.17	20.82	30.27	22.52	2.56	1.09	1.15	1.09	1.06	1.06
3500.00	6.97	6.93	6.82	6.80	0.17	19.92	30.62	21.35	2.40	1.17	1.13	1.08	1.04	1.04
3600.00	7.00	6.97	6.92	6.90	0.10	19.48	32.35	20.92	2.21	1.29	1.14	1.10	1.04	1.06
3750.00	6.97	6.93	6.94	6.94	0.04	21.61	37.56	23.50	2.20	1.30	1.13	1.14	1.10	1.12
3800.00	6.96	6.93	6.93	6.94	0.03	23.52	39.01	25.65	2.41	1.27	1.13	1.15	1.12	1.14
4040.00	6.94	6.88	6.90	6.91	0.06	32.59	33.08	33.25	2.88	1.05	1.10	1.08	1.10	1.10
4500.00	6.97	6.96	7.08	7.03	0.13	25.09	36.21	29.86	1.97	1.04	1.08	1.09	1.15	1.13
5000.00	6.97	6.93	7.16	7.09	0.23	16.20	24.51	14.85	2.63	1.04	1.06	1.11	1.10	1.11



### electrical schematic

