Coaxial

Power Splitter/Combiner

ZN2PD2-50+

2 Way-0° 50Ω 500 to 5000 MHz

CASE STYLE: VVV845

Connectors	Model	Price	Qty.
SMA	ZN2PD2-50-S+	$74.95	(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	0.25W max.

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

Coaxial Connections

SUMPORT	S
PORT 1	1
PORT 2	2

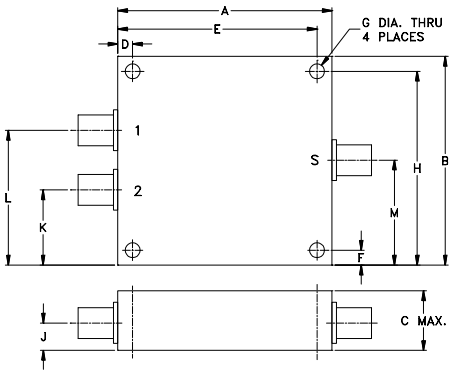
Features

- wideband, 500 to 5000 MHz
- excellent amplitude unbalance, 0.05 dB typ.
- excellent phase unbalance, 0.5 deg. typ.
- up to 10W power input as splitter

Applications

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

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G
4.50	2.50	.67	.400	4.100	.125	.125
114.30	63.50	17.02	10.16	104.14	3.18	3.18

H	J	K	L	M		wt
2.375	.33	.75	1.75	1.25		grams
60.33	8.38	19.05	44.45	31.75		247

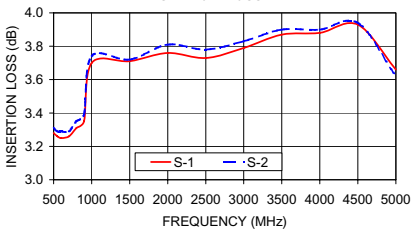
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
							S		OUT	
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.	Typ.	Max.	Typ.	Max.
500-5000	**25**	**15**	**0.8**	**1.4**	**4**	**0.5**	**1.2**	**—**	**1.1**	**—**
600-1600	24	17	0.7	1.1	2	0.3	1.2	—	1.1	—
1600-2700	26	18	0.8	1.2	3	0.3	1.2	—	1.1	—
2700-3600	28	19	0.9	1.3	3	0.4	1.2	—	1.1	—
3600-4800	22	18	0.9	1.4	4	0.5	1.2	—	1.1	—

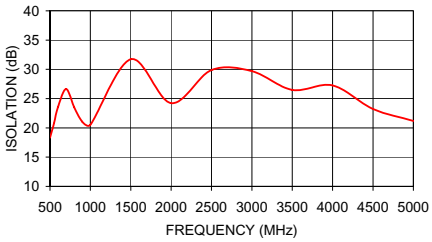
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
500.00	3.28	3.31	0.04	18.32	0.02	1.33	1.09	1.10
550.00	3.26	3.29	0.03	20.81	0.02	1.27	1.07	1.07
600.00	3.25	3.29	0.04	23.61	0.09	1.22	1.07	1.07
700.00	3.26	3.29	0.03	26.64	0.12	1.18	1.10	1.10
800.00	3.31	3.35	0.04	23.51	0.07	1.22	1.14	1.14
900.00	3.35	3.39	0.04	21.06	0.04	1.29	1.16	1.16
1000.00	3.70	3.74	0.03	20.52	0.12	1.33	1.14	1.15
1500.00	3.71	3.72	0.01	31.72	0.23	1.20	1.15	1.13
2000.00	3.76	3.81	0.05	24.24	0.19	1.28	1.10	1.10
2500.00	3.73	3.78	0.06	29.88	0.36	1.07	1.04	1.02
3000.00	3.79	3.83	0.04	29.70	0.48	1.16	1.10	1.11
3500.00	3.87	3.90	0.02	26.49	0.58	1.20	1.10	1.09
4000.00	3.88	3.90	0.03	27.25	0.54	1.15	1.07	1.06
4500.00	3.93	3.94	0.01	23.23	0.81	1.13	1.06	1.01
5000.00	3.66	3.62	0.04	21.19	1.03	1.09	1.26	1.15

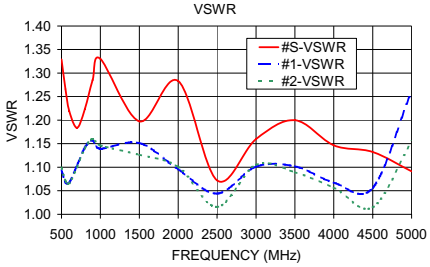
ZN2PD2-50+
INSERTION LOSS



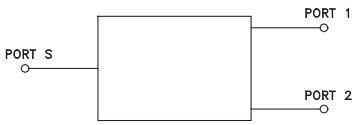
ZN2PD2-50+
ISOLATION



ZN2PD2-50+
VSWR



electrical schematic



REV. C
M108294
ZN2PD2-50+
ED-7451/1
LC/TD/CP/AM
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