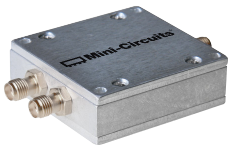
DC Pass

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

The +Suffix identifies 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.
DC Current	600 mA (300mA for each port)

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

Coaxial Connections

SUMPORT	S
PORT 1	1
PORT 2	2

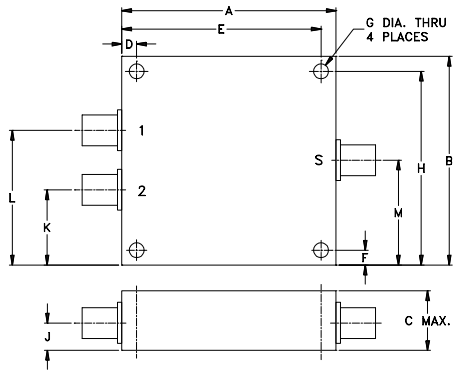
Features

- 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

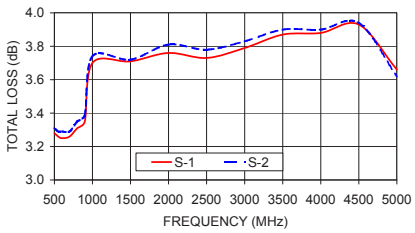
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
							S		OUT	
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.	Typ.	Max.	Typ.	Max.
500-5000	**25**	**15**	**0.8**	**1.4**	**4**	**0.5**	**1.2**	**—**	**1.1**	**—**
600-1600	24	17	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

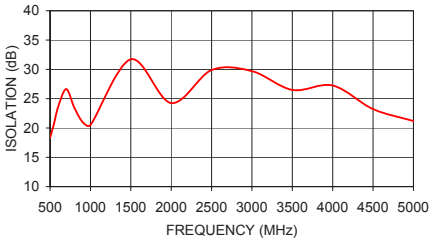
Frequency (MHz)	Total Loss[1] (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
500.00	3.28	3.31	0.04	18.32	0.02	1.33	1.09	1.10
550.00	3.26	3.29	0.03	20.81	0.02	1.27	1.07	1.07
600.00	3.25	3.29	0.04	23.61	0.09	1.22	1.07	1.07
700.00	3.26	3.29	0.03	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

1. Total Loss = Insertion Loss + 3dB splitter loss.

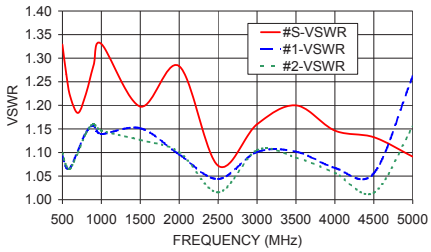
ZN2PD2-50+
TOTAL LOSS



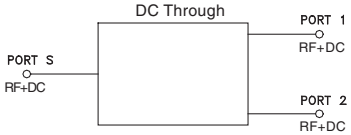
ZN2PD2-50+
ISOLATION



ZN2PD2-50+
VSWR



electrical schematic



Notes

A. 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.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document 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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