Power Splitter/Combiner

ZN4PD1-63W+

4 Way-0° 50Ω 250 to 6000 MHz

The Big Deal

- Wideband performance
- · Low amplitude and phase unbalance
- Good insertion loss



CASE STYLE: UU846

Product Overview

This four-way, in-phase splitter and combiner covers a wide frequency range between 250-6000MHz, making this splitter now suitable for GPS, GSM, DCS and PCS frequency bands, in addition to WiFi, Bluetooth and 802.11a uses. This model also features good insertion loss and amplitude and phase unbalance, and is packaged in a 3.5"x 4.5" enclosure with built-in SMA connectors for ease of use.

Feature	Advantages							
Operating over a very wide bandwidth from 250MHz to 6000MHz	The very wide bandwidth performance of the ZN4PD1-63W+ enables this splitter/combiner to be used in a wide range of applications including broadband systems such as test, measurement and defense/aerospace. However this model covers a variety of narrow band applications including GSM, GPS, DCS and PCS applications, in addition to WiFi, Bluetooth, 802.11a, U-NII and ISM applications.							
Good insertion loss	With typical insertion loss of only 1.0dB above the splitter loss up to 4GHz, this splitter supports medium power signal distribution applications where loss is critical.							
Good amplitude and phase performance	Typical amplitude unbalance of 0.2dB and phase unbalance of 2° make this splitter ideal for parallel path/multichannel systems.							



For detailed performance specs & shopping online see web site

Power Splitter/Combiner ZN4PD1-63W+

250 to 6000 MHz 4 Way-0° 50Ω

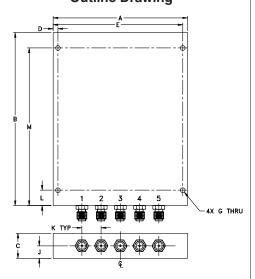
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	3W max.
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)

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

Features

- wide frequency band, 250 to 6000 MHz
- low insertion loss, 1.0 dB typ.
- low amplitude unbalance 0.2 dB typ.
- low phase unbalance 2 deg. typ.

Applications

- high band PCS
- UNII • ISM 802.11A
- WiFi • Bluetooth

Electrical Specifications

	CASE STYLE: UU8	46							
onnectors	Model	Price	Qty.						
MA	ZN4PD1-63W-S+	\$119.95	(1-9)						

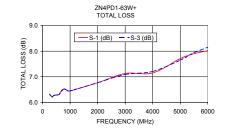
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

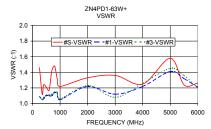
The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

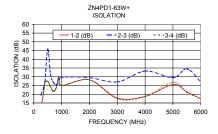
Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit		
Frequency Range		250		6000	MHz		
Insertion Loss Above 6.0 dB	250-350	_	0.3	0.8	dB		
	350-6000		1.2	3.0			
Isolation	250-350	8	14	_			
isolation	350-5500	14	20	_	dB		
	5500-6000	12	20	_			
Phase Unbalance	250-350	_	_	3	Degree		
Filase Officialice	350-6000	_	_	6			
Amulitude Unhelenee	250-350	_	_	0.3	dB		
Amplitude Unbalance	350-6000	_	_	0.6	uв		
VSWR Input	250-350	_	1.2	_	:1		
vovn iliput	350-6000	_	1.3	_	.1		
VCWD Output	250-350	_	1.1	_	:1		
VSWR Output	350-6000		1.3		11		

Typical Performance Data														
Freq. (MHz)			Loss ¹ IB)		Amp. Unbal.	I	solation (dB)	1	Phase Unbal.	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4	(dB)	1-2	2-3	3-4	(deg.)					
250.00	6.32	6.31	6.32	6.33	0.02	11.87	19.38	11.99	0.27	1.46	1.09	1.09	1.09	1.10
350.00	6.22	6.21	6.22	6.22	0.02	20.88	23.90	20.88	0.30	1.12	1.05	1.05	1.05	1.05
400.00	6.27	6.26	6.27	6.28	0.02	26.84	27.53	26.56	0.30	1.24	1.06	1.07	1.08	1.07
500.00	6.29	6.28	6.29	6.31	0.03	27.50	45.87	27.33	0.38	1.21	1.10	1.10	1.11	1.10
600.00	6.32	6.30	6.31	6.34	0.04	24.35	31.29	24.14	0.50	1.17	1.10	1.11	1.11	1.10
700.00	6.48	6.45	6.46	6.49	0.04	21.55	26.77	21.98	0.60	1.42	1.10	1.11	1.12	1.10
800.00	6.53	6.51	6.52	6.54	0.02	23.25	25.64	23.96	0.66	1.48	1.14	1.15	1.15	1.14
900.00	6.46	6.45	6.46	6.47	0.02	30.37	26.45	29.80	0.69	1.31	1.13	1.15	1.14	1.13
1000.00	6.45	6.44	6.45	6.46	0.02	25.00	29.71	25.26	0.70	1.22	1.05	1.06	1.06	1.06
2000.00	6.77	6.78	6.77	6.79	0.02	28.30	29.48	28.24	1.45	1.33	1.22	1.24	1.23	1.23
3000.00	7.13	7.20	7.09	7.15	0.10	17.84	27.02	17.39	1.70	1.36	1.12	1.11	1.08	1.12
4000.00	7.15	7.31	7.21	7.22	0.17	18.76	33.24	18.64	2.48	1.25	1.22	1.27	1.26	1.24
5000.00	7.71	7.79	7.65	7.82	0.17	25.57	29.50	26.88	3.27	1.58	1.41	1.44	1.45	1.42
5500.00	7.90	8.09	7.94	8.07	0.20	21.38	34.53	21.02	3.47	1.24	1.32	1.37	1.36	1.37
6000.00	8.02	8.27	8.15	8.27	0.25	17.38	27.14	17.61	4.04	1.26	1.21	1.22	1.20	1.24

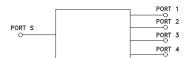
1. Total Loss = Insertion Loss + 6dB splitter loss.







Electrical Schematic



/lini-Circuits ISO 9001 ISO 14001 AS 9100 CERTIFIED

For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineer Search Engine Provides ACTUAL Data Instantly at minicipal Provides ACTUAL Data Instantly ACTUAL D IF/RF MICROWAVE COMPONENTS