

Coaxial

Power Splitter/Combiner

ZN12PD-17

12 Way-0° 50Ω 800 to 1700 MHz

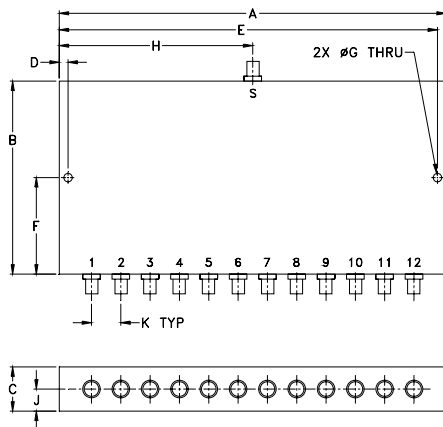
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	2W max.
Permanent damage may occur if any of these limits are exceeded.	

Coaxial Connections

SUM PORT	S(COM)
PORT 1,2,3,.....,12	1,2,3,.....,12

Outline Drawing



Outline Dimensions (inch mm)

A	B	C	D	E	F
6.60	3.28	.75	.150	6.45	1.64
167.64	83.31	19.05	3.81	163.83	41.66
G	H	J	K	wt	
.144	3.30	.38	.500	grams	
3.66	83.82	9.65	12.70	370	

Features

- low insertion loss, 0.45 dB typ.
- high isolation, 30 dB typ.
- excellent VSWR, 1.1:1 typ.
- excellent amplitude unbalance, 0.2 dB typ.
- up to 5W power output as splitter
- rugged shielded case

Applications

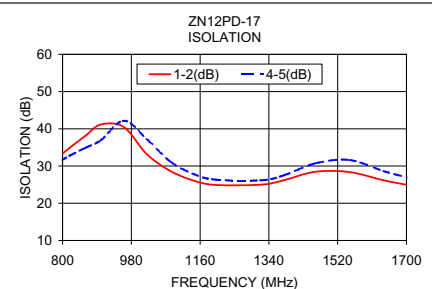
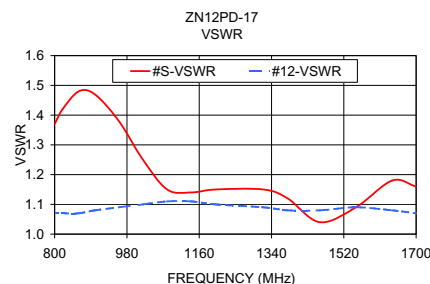
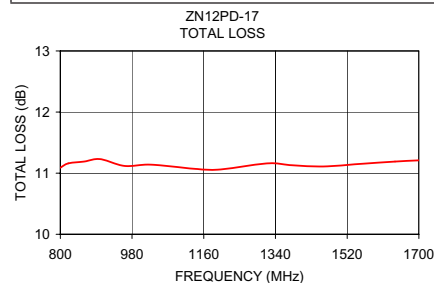
- instrumentation
- cellular
- PCN
- GPS
- satellite

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) ABOVE 10.8 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)
f_L - f_U	Typ. Min.	Typ. Max.	Max.	Max.	S Typ. Max. OUT Typ. Max.
800-1700	30 18	0.45 1.2	14	0.7	1.2 1.6 1.1 1.4

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 12
			1-2 4-5			
800.00	11.09	0.19	33.36	31.69	2.53	1.37
820.00	11.16	0.20	34.98	32.87	2.26	1.42
860.00	11.19	0.27	38.14	34.91	2.79	1.48
900.00	11.23	0.19	41.15	36.91	2.82	1.47
960.00	11.12	0.18	40.49	42.16	2.80	1.38
1020.00	11.14	0.14	33.25	37.29	2.91	1.25
1080.00	11.11	0.12	28.79	31.36	2.89	1.15
1140.00	11.07	0.11	26.19	28.00	3.13	1.14
1200.00	11.06	0.09	24.92	26.36	3.92	1.15
1320.00	11.16	0.12	25.00	26.18	4.11	1.15
1380.00	11.13	0.12	26.21	27.53	4.08	1.12
1460.00	11.11	0.18	28.45	30.68	4.06	1.04
1550.00	11.15	0.22	28.40	31.64	4.45	1.09
1640.00	11.19	0.21	26.18	28.65	4.61	1.18
1700.00	11.21	0.19	24.96	26.95	4.73	1.16



electrical schematic



Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine www.minicircuits.com Provides ACTUAL Data Instantly at [minicircuits.com](http://www.minicircuits.com)
IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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.

REV. C
M127604
ZN12PD-17
ED-6343/1
HY/TD/CP
100603