

# Coaxial Power Splitter/Combiner

## ZAPD-1+ ZAPD-1

2 Way-0° 50Ω 500 to 1000 MHz



N-Type version shown  
CASE STYLE: F14

Connectors	Model	Price	Qty.
BNC	ZAPD-1(+)	\$59.95	(1-9)
SMA	ZAPD-1-S(+)	\$64.95	(1-9)
N-TYPE	ZAPD-1-N+	\$64.95	(1-9)

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

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	0.125W max.

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

### Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2

### Features

- wideband, 500 to 1000 MHz
- low insertion loss, 0.25 dB typ.
- good isolation, 25 dB typ.
- up to 10W power input as splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.2 deg. typ.
- excellent VSWR, 1.1:1 typ.
- rugged shielded case

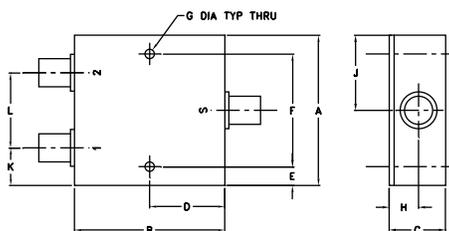
### Applications

- UHF
- cellular
- communications systems
- instrumentation

### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
	Typ.	Min	Typ.	Max.	Max.	Max.
$f_c$ - $f_u$	25	19	0.25	0.6	2	0.2

### Outline Drawing



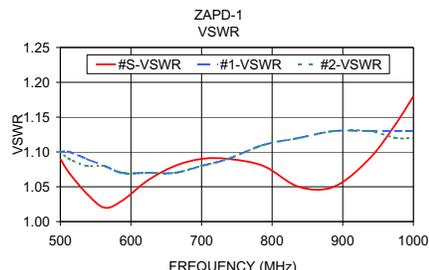
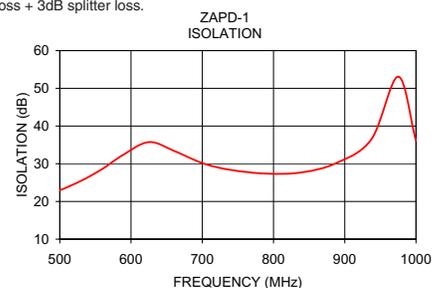
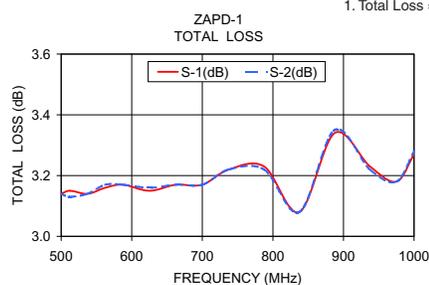
### Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
2.00	2.00	0.75	1.00	0.25	1.500	0.125
50.80	50.80	19.05	25.40	6.35	38.10	3.18
H	J	K	L	wt		
0.39	1.00	0.50	1.00	grams		
9.91	25.40	12.70	25.40	170.0		

### Typical Performance Data

Frequency (MHz)	Total Loss <sup>1</sup> (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
500.00	3.14	3.14	0.00	22.98	0.10	1.09	1.10	1.10
512.50	3.15	3.13	0.02	23.95	0.07	1.07	1.10	1.09
537.50	3.14	3.14	0.00	26.20	0.02	1.04	1.09	1.08
562.50	3.16	3.17	0.01	28.96	0.07	1.02	1.08	1.08
587.50	3.17	3.17	0.00	32.19	0.13	1.03	1.07	1.07
625.00	3.15	3.16	0.00	35.73	0.08	1.06	1.07	1.07
662.50	3.17	3.17	0.00	33.23	0.13	1.08	1.07	1.07
700.00	3.17	3.17	0.00	30.16	0.09	1.09	1.08	1.08
737.50	3.22	3.22	0.00	28.42	0.10	1.09	1.09	1.09
787.50	3.23	3.22	0.01	27.39	0.13	1.08	1.11	1.11
837.50	3.08	3.08	0.00	27.65	0.10	1.05	1.12	1.12
887.50	3.34	3.35	0.01	30.13	0.11	1.05	1.13	1.13
937.50	3.23	3.22	0.01	36.50	0.24	1.09	1.13	1.13
975.00	3.18	3.18	0.00	53.09	0.19	1.14	1.13	1.12
1000.00	3.27	3.28	0.01	36.11	0.19	1.18	1.13	1.12

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



### electrical schematic



**Mini-Circuits®**  
ISO 9001 ISO 14001 AS 9100 CERTIFIED  
The Design Engineers Search Engine **Mini-Circuits** Provides ACTUAL Data Instantly at [minicircuits.com](http://minicircuits.com)  
IFIR MICROWAVE COMPONENTS

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 Engineers Search Engine **Mini-Circuits** Provides ACTUAL Data Instantly at [minicircuits.com](http://minicircuits.com)

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](http://www.minicircuits.com/MCLStore/terms.jsp).

REV. C  
M127604  
ZAPD-1  
HY/TD/CP  
100614