

Coaxial

Power Splitter/Combiner

ZAPD-4+

2 Way-0° 50Ω 2000 to 4200 MHz



N-Type version shown
CASE STYLE: F14

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, 2000 to 4200 MHz
- low insertion loss, 0.4 dB typ.
- good isolation, 25 dB typ.
- up to 10W power input as splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.5 deg. typ.
- rugged shielded case

Applications

- MMDS
- ISM
- wireless
- communication systems
- instrumentation

Connectors	Model	Price	Qty.
N-TYPE	ZAPD-4-N+	\$64.95	(1-9)
SMA	ZAPD-4-S+	\$64.95	(1-9)

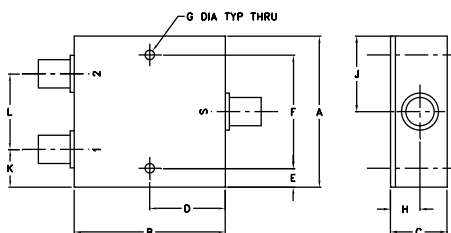
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

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						
2000-4200	25	19	0.4	0.8	6	0.4

Outline Drawing



Outline Dimensions (inch/mm)

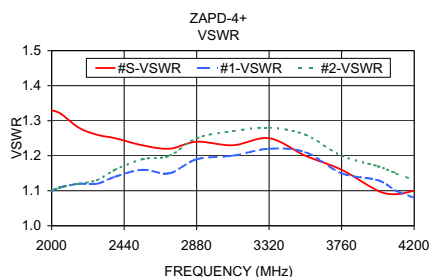
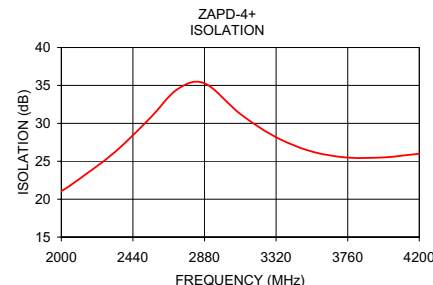
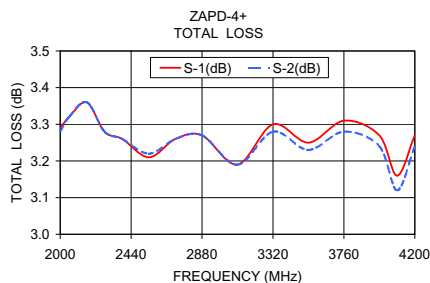
A	B	C	D	E	F	G
2.00	2.00	0.75	1.00	0.25	1.500	0.125
50.80	50.80	19.05	25.40	6.35	38.10	3.18

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 ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
2000.00	3.29	3.28	0.01	21.06	0.12	1.33	1.10	1.10
2055.00	3.32	3.32	0.00	21.81	0.06	1.32	1.11	1.11
2165.00	3.36	3.36	0.00	23.52	0.02	1.28	1.12	1.12
2275.00	3.28	3.28	0.01	25.26	0.06	1.26	1.12	1.13
2385.00	3.26	3.26	0.01	27.29	0.06	1.25	1.14	1.16
2550.00	3.21	3.22	0.01	30.80	0.03	1.23	1.16	1.19
2715.00	3.26	3.26	0.00	34.52	0.07	1.22	1.15	1.20
2880.00	3.27	3.27	0.01	35.28	0.11	1.24	1.19	1.25
3100.00	3.19	3.19	0.01	31.23	0.05	1.23	1.20	1.27
3320.00	3.30	3.28	0.02	28.17	0.13	1.25	1.22	1.28
3540.00	3.25	3.23	0.02	26.28	0.06	1.20	1.21	1.26
3760.00	3.31	3.28	0.02	25.49	0.06	1.16	1.15	1.20
3980.00	3.27	3.24	0.04	25.51	0.02	1.10	1.13	1.17
4090.00	3.16	3.12	0.03	25.74	0.04	1.09	1.10	1.15
4200.00	3.27	3.24	0.04	25.99	0.02	1.10	1.08	1.13

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



electrical schematic



Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED
IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

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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.

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