

Power Splitter/Combiner

ZAPD-4+

2 Way-0° 50Ω 2000 to 4200 MHz

Maximum Ratings

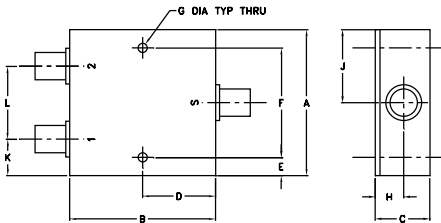
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.125W max.
DC Current	500 mA (250mA for each port)

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

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	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		

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

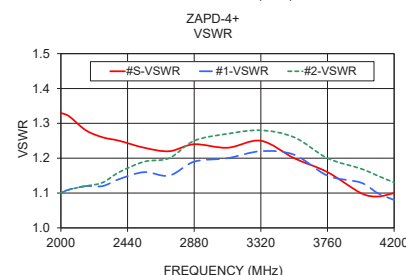
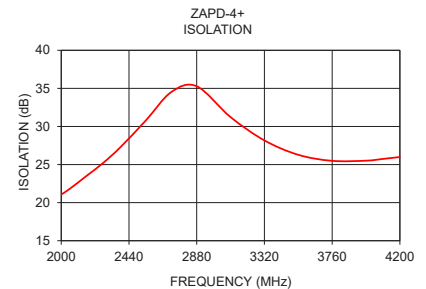
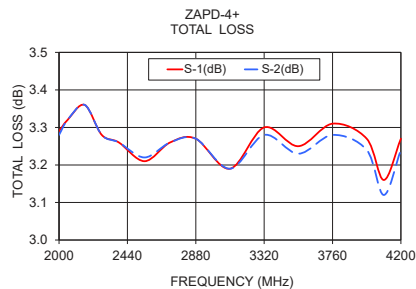
Electrical Specifications

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

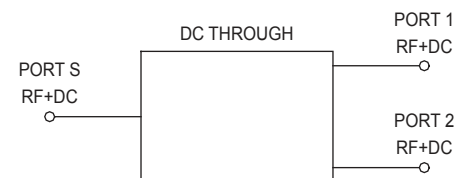
Typical Performance Data

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



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



Generic photo used for illustration purposes only
 N-Type version shown

CASE STYLE: F14

Connectors	Model
N-TYPE	ZAPD-4-N+
SMA	ZAPD-4-S+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications