

Power Splitter/Combiner

ZAPD-2+

2 Way-0° 50Ω 1000 to 2000 MHz

Maximum Ratings

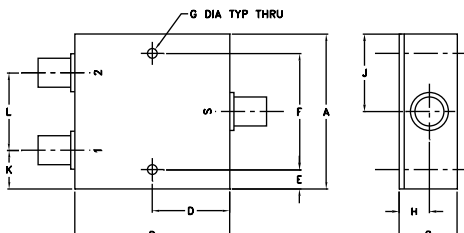
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	0.125W max.
DC Current	800 mA (400mA for each port)

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

- 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, 0.5 deg. typ.
- excellent VSWR, 1.1:1 typ.
- rugged shielded case

Applications

- GPS
- satellite distribution
- PCS/DCS
- communications systems



N-Type version shown

CASE STYLE: F14

Connectors	Model	Price	Qty.
BNC	ZAPD-2+	\$59.95	(1-9)
SMA	ZAPD-2-S+	\$64.95	(1-9)
N-TYPE	ZAPD-2-N+	\$64.95	(1-9)

+RoHS Compliant

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

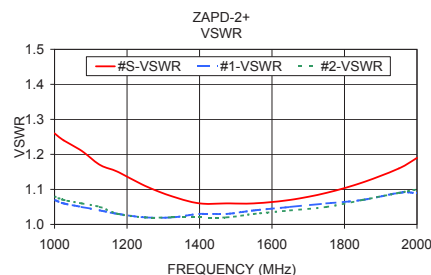
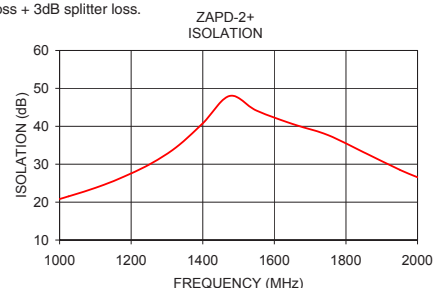
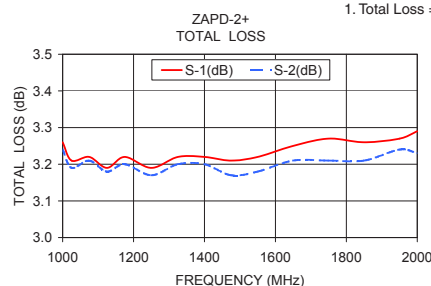
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) ABOVE 3.0 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)
f_L - f_U	Typ. Min.	Typ. Max.	Max.	Max.	S Typ. Max. OUT Typ. Max.
1000-2000	25 19	0.25 0.6	2	0.2	— — — —

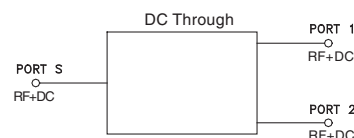
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1 S-2						
1000.00	3.26 3.24	0.02	20.82	0.14	1.26	1.07	1.08
1025.00	3.21 3.19	0.01	21.53	0.14	1.24	1.06	1.07
1075.00	3.22 3.21	0.01	22.97	0.12	1.21	1.05	1.06
1125.00	3.19 3.18	0.01	24.61	0.16	1.17	1.04	1.05
1175.00	3.22 3.20	0.02	26.54	0.13	1.15	1.03	1.03
1250.00	3.19 3.17	0.02	29.88	0.17	1.11	1.02	1.02
1325.00	3.22 3.20	0.02	34.41	0.15	1.08	1.02	1.02
1400.00	3.22 3.20	0.02	40.79	0.23	1.06	1.03	1.02
1475.00	3.21 3.17	0.04	48.01	0.27	1.06	1.03	1.02
1550.00	3.22 3.18	0.04	44.16	0.23	1.06	1.04	1.03
1650.00	3.25 3.21	0.04	40.64	0.23	1.07	1.05	1.04
1750.00	3.27 3.21	0.05	37.67	0.17	1.09	1.06	1.05
1850.00	3.26 3.21	0.05	33.14	0.22	1.12	1.07	1.07
1950.00	3.27 3.24	0.03	28.56	0.27	1.16	1.09	1.09
2000.00	3.29 3.23	0.06	26.55	0.20	1.19	1.09	1.10

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-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

