

Power Splitter/Combiner

ZAPD-2-22-75+

2 Way-0° 75Ω 910 to 2150 MHz

Maximum Ratings

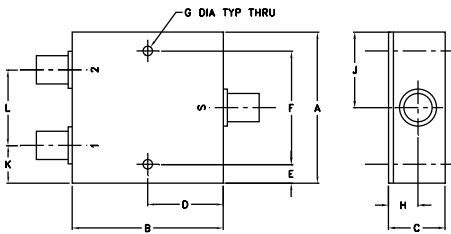
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	5W max.
Internal Dissipation	0.25W max.
DC Current	400 mA (200mA for each port)

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, 910 to 2150 MHz
- low insertion loss, 0.2 dB typ.
- high isolation, 30 dB typ.
- up to 5W 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

- communications systems
- cellular
- catv
- GPS

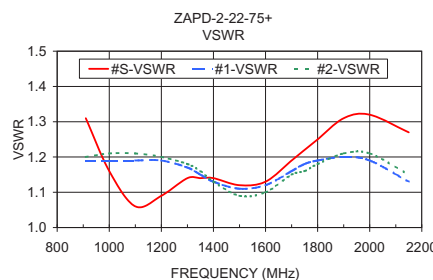
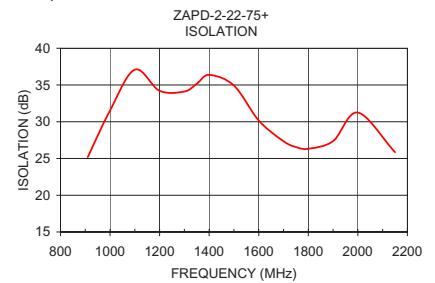
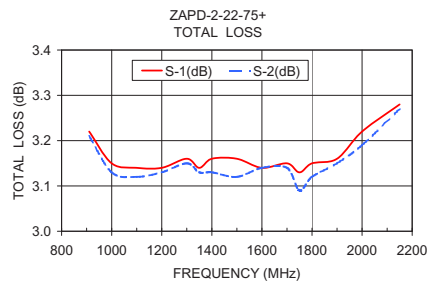
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
	Typ.	Min.	Typ.	Max.			S		OUT	
910-2150	30	20	0.2	0.7	2	0.4	1.15	1.6	1.1	1.3

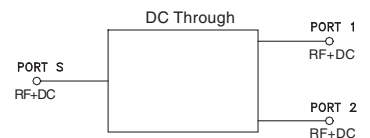
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2					
910.00	3.22	3.21	0.01	25.17	1.31	1.19	1.20
1000.00	3.15	3.13	0.02	31.54	1.16	1.19	1.21
1100.00	3.14	3.12	0.02	37.09	1.06	1.19	1.21
1200.00	3.14	3.13	0.01	34.21	1.09	1.19	1.20
1300.00	3.16	3.15	0.01	34.12	1.14	1.17	1.18
1350.00	3.14	3.13	0.01	35.17	1.14	1.15	1.16
1400.00	3.16	3.13	0.03	36.38	1.14	1.13	1.13
1500.00	3.16	3.12	0.04	34.92	1.12	1.11	1.09
1600.00	3.14	3.14	0.01	30.17	1.13	1.12	1.10
1700.00	3.15	3.14	0.01	27.34	1.19	1.16	1.15
1750.00	3.13	3.09	0.04	26.56	1.22	1.18	1.16
1800.00	3.15	3.12	0.03	26.32	1.25	1.19	1.18
1900.00	3.16	3.15	0.01	27.36	1.31	1.20	1.21
2000.00	3.22	3.19	0.03	31.25	1.32	1.19	1.21
2150.00	3.28	3.27	0.01	25.86	1.27	1.13	1.15

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

CASE STYLE: F14

Connectors	Model
BNC	ZAPD-2-22-75+

+RoHS Compliant

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