

Coaxial

Power Splitter/Combiner

ZAPD-900-5W+

2 Way-0° 50Ω 100 to 900 MHz

Maximum Ratings

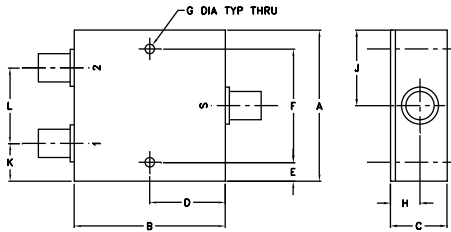
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	5W max.
Internal Dissipation	1W max.

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, 100 to 900 MHz
- low insertion loss, 0.3 dB typ.
- good isolation, 26 dB typ.
- up to 5W power input as splitter
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1 deg. typ.
- rugged shielded case

Applications

- VHF/UHF
- communication systems
- instrumentation



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

CASE STYLE: F14

Connectors	Model
N-TYPE	ZAPD-900-5W-N+
SMA	ZAPD-900-5W-S+

+RoHS Compliant

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

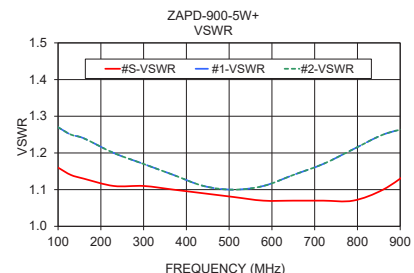
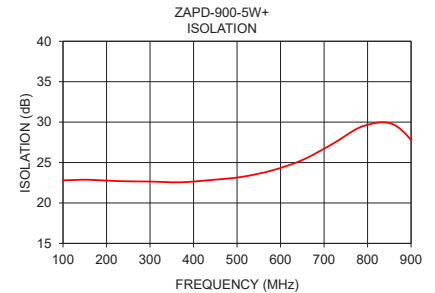
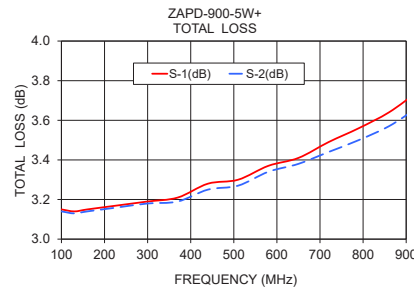
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)	
	Typ.	Min.	Typ.	Max.			S	OUT
f_L - f_U					Max.	Max.	Typ.	Max.
100-900	23	18	0.3	1.0	3	0.3	1.15	1.5
							1.22	1.5

Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2					
100.00	3.15	3.14	0.01	22.80	1.16	1.27	1.27
130.00	3.14	3.13	0.01	22.85	1.14	1.25	1.25
160.00	3.15	3.14	0.00	22.87	1.13	1.24	1.24
230.00	3.17	3.16	0.01	22.70	1.11	1.20	1.20
300.00	3.19	3.18	0.01	22.65	1.11	1.17	1.17
370.00	3.21	3.19	0.02	22.56	1.10	1.14	1.14
440.00	3.28	3.25	0.03	22.84	1.09	1.11	1.11
510.00	3.30	3.27	0.03	23.22	1.08	1.10	1.10
580.00	3.37	3.34	0.03	24.02	1.07	1.11	1.11
650.00	3.41	3.38	0.04	25.31	1.07	1.14	1.14
720.00	3.49	3.44	0.05	27.32	1.07	1.17	1.17
790.00	3.56	3.50	0.05	29.51	1.07	1.21	1.21
860.00	3.64	3.57	0.07	29.70	1.10	1.25	1.25
924.00	3.74	3.66	0.09	26.35	1.15	1.27	1.27

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



electrical schematic



Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- 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

