Coaxial

Power Splitter/Combiner

ZAPD-900-5W+

2 Way-0° 50Ω 100 to 900 MHz



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

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

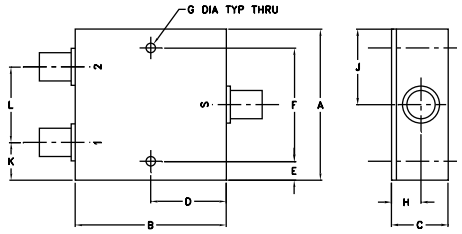
Features

- 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

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

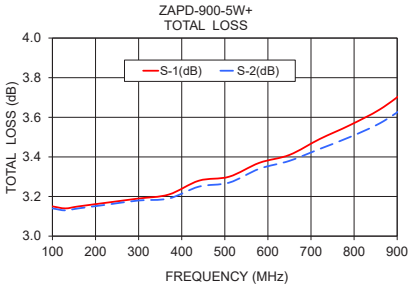
Electrical Specifications

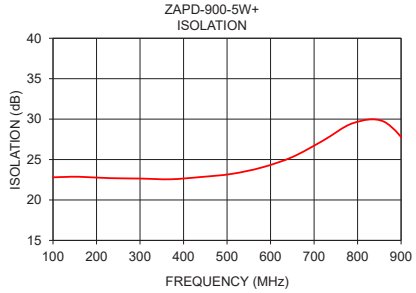
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
							S		OUT	
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.	Typ.	Max.	Typ.	Max.
100-900	23	18	0.3	1.0	3	0.3	1.15	1.5	1.22	1.5

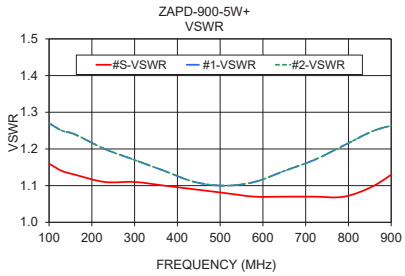
Typical Performance Data

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

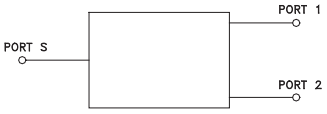
1. Total Loss = Insertion Loss + 3dB splitter loss.







electrical schematic



Notes
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.
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