

ARTISAN®
TECHNOLOGY GROUP

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DC Pass

Power Splitter/Combiner

ZAPD-2+

2 Way-0° 50Ω 1000 to 2000 MHz



Generic photo used for illustration purposes only

CASE STYLE: F14

Connectors	Model
BNC	ZAPD-2+
SMA	ZAPD-2-S+
N-TYPE	ZAPD-2-N+

+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)	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

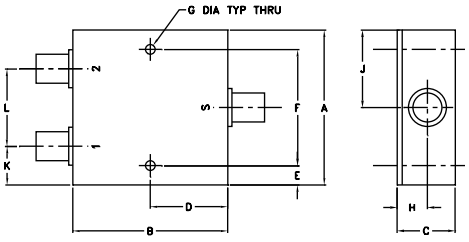
Features

- 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

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

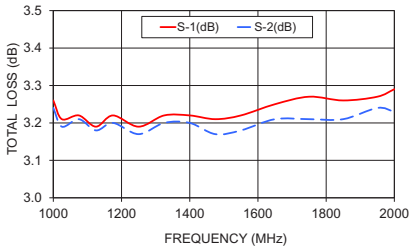
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
							S		OUT	
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.	Typ.	Max.	Typ.	Max.
1000-2000	25	19	0.25	0.6	2	0.2	—	—	—	—

Typical Performance Data

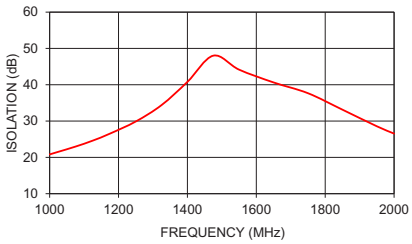
Frequency (MHz)	Total Loss[1] (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
1000.00	3.26	3.24	0.02	20.82	0.14	1.26	1.07	1.08
1025.00	3.21	3.19	0.01	21.53	0.14	1.24	1.06	1.07
1075.00	3.22	3.21	0.01	22.97	0.12	1.21	1.05	1.06
1125.00	3.19	3.18	0.01	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.

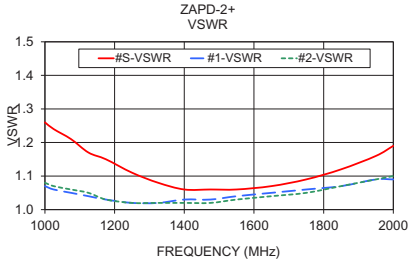
ZAPD-2+
TOTAL LOSS



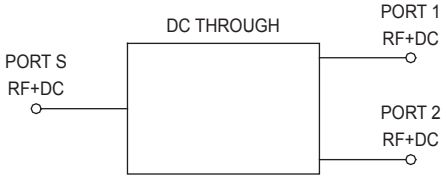
ZAPD-2+
ISOLATION



ZAPD-2+
VSWR



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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