Coaxial

Power Splitter/Combiner

ZAPDJ-2

2 Way-180° 50Ω 1000 to 2000 MHz

SMA version shown

CASE STYLE: F53

Connectors	Model
BNC	ZAPDJ-2
N-TYPE	ZAPDJ-2-N

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2

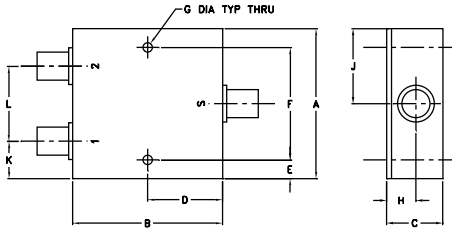
Features

- low insertion loss, 1.3 dB typ.
- good isolation, 22 dB typ.
- excellent amplitude unbalance, 0.8 dB typ.
- rugged shielded case

Applications

- GPS
- satellite distribution
- signal processing

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G
2.00	2.00	.75	1.00	.13	1.750	.125
50.80	50.80	19.05	25.40	3.30	44.45	3.18

H	J	K	L	wt
.39	1.00	.50	1.00	grams
9.91	25.40	12.70	25.40	170.0

Electrical Specifications

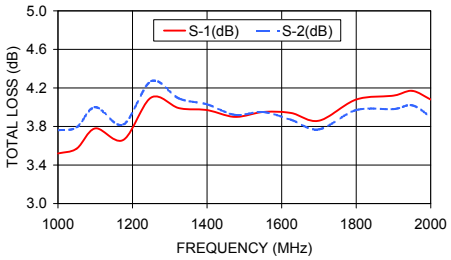
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.
1000-2000	22	18	1.3	1.8	6	0.8

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	3.52	3.76	0.24	27.17	181.64	1.39	1.50	1.60
1050.00	3.57	3.79	0.23	26.67	181.56	1.38	1.49	1.59
1100.00	3.78	4.00	0.22	26.74	181.90	1.40	1.49	1.58
1175.00	3.66	3.82	0.16	27.17	181.57	1.46	1.50	1.59
1250.00	4.10	4.27	0.16	29.31	181.62	1.51	1.53	1.62
1325.00	3.99	4.09	0.09	31.81	178.45	1.53	1.56	1.63
1400.00	3.97	4.03	0.06	34.50	178.65	1.51	1.57	1.63
1475.00	3.90	3.92	0.01	32.19	178.75	1.45	1.54	1.59
1550.00	3.95	3.95	0.00	28.92	178.85	1.36	1.48	1.50
1625.00	3.94	3.87	0.07	26.67	178.83	1.26	1.39	1.40
1700.00	3.86	3.77	0.09	25.57	179.11	1.18	1.28	1.29
1800.00	4.08	3.97	0.11	26.47	179.21	1.17	1.21	1.22
1900.00	4.12	3.98	0.14	31.30	180.54	1.24	1.23	1.24
1950.00	4.17	4.02	0.15	39.34	180.43	1.27	1.24	1.25
2000.00	4.08	3.90	0.17	39.57	180.35	1.29	1.23	1.23

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

ZAPDJ-2
TOTAL LOSS



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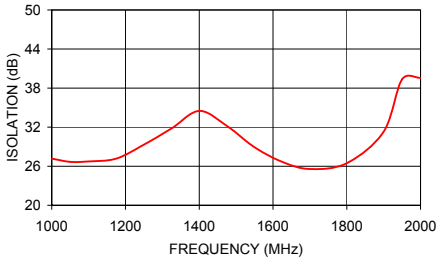
ISOLATION



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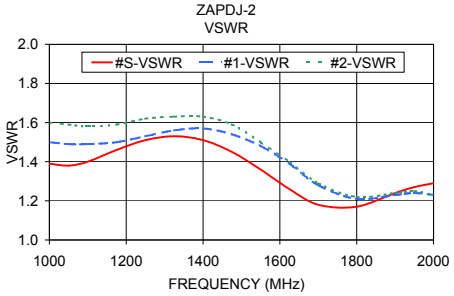
VSWR



electrical schematic

Notes

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