Coaxial

Power Splitter/Combiner

ZFSC-24-1

24 Way-0° 50Ω 0.2 to 100 MHz

BNC version shown

CASE STYLE: R31

Connectors	Model
BNC	ZFSC-24-1

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	0.87W max.

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

Coaxial Connections

SUM PORT	S (COM)
PORT 1,2,3,4,.....,24	1,2,3,4,.....,24

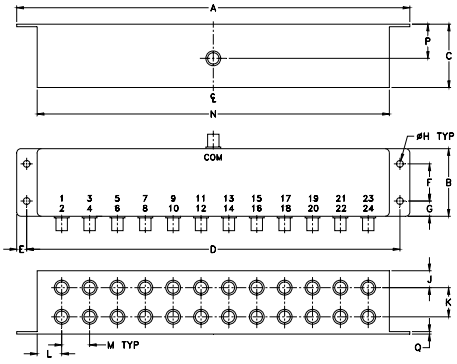
Features

- good isolation, 25 dB typ.
- low insertion loss, 1.0 dB typ.

Applications

- HF/VHF
- instrumentation
- test set-ups

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H
9.31	1.60	1.50	8.84	.24	.88	.36	.160
236.47	40.64	38.10	224.54	6.10	22.35	9.14	4.06

J	K	L	M	N	P	Q	wt.
.40	.69	.54	.66	8.34	.81	.06	grams
10.16	17.53	13.72	16.76	211.84	20.57	1.52	490.0

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 13.8 dB						AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U
f_L-f_U	Typ.	Min.	Typ.	Min.	Typ.	Typ.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.
0.2-100	25	20	25	20	25	20	1.0	2.0	1.0	2.0	1.0	2.0	0.6	0.4	0.5

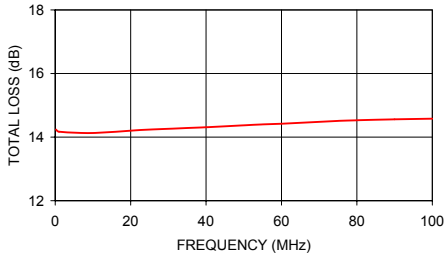
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]

Typical Performance Data

Freq. (MHz)	Insertion Loss (dB)	Amplitude Unbalance (dB)	Isolation (dB)		VSWR S	VSWR OUTPUT
	S-1		Adjacent	Opposite		
0.20	14.24	0.04	39.41	33.21	1.33	1.31
1.00	14.17	0.02	55.54	42.27	1.09	1.11
10.00	14.13	0.02	50.08	44.68	1.07	1.04
22.00	14.22	0.01	46.72	41.12	1.10	1.03
30.00	14.26	0.02	45.13	39.29	1.12	1.03
40.00	14.31	0.02	43.49	37.48	1.14	1.04
50.00	14.37	0.03	42.03	36.11	1.16	1.04
55.00	14.40	0.03	41.27	35.55	1.16	1.04
60.00	14.42	0.04	40.59	35.07	1.17	1.05
65.00	14.45	0.04	39.94	34.61	1.18	1.05
70.00	14.48	0.04	39.30	34.22	1.19	1.06
75.00	14.51	0.05	38.67	33.85	1.20	1.06
80.00	14.53	0.05	38.09	33.49	1.21	1.07
90.00	14.56	0.06	36.99	32.88	1.23	1.08
100.00	14.58	0.07	35.94	32.31	1.24	1.09

1. Total Loss = Insertion Loss + 13.8dB splitter loss.

ZFSC-24-1
TOTAL LOSS



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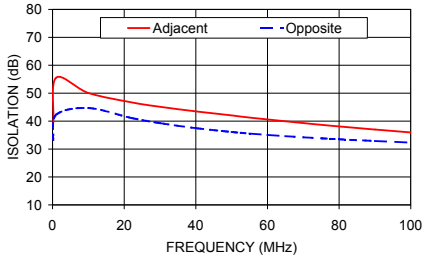
ISOLATION



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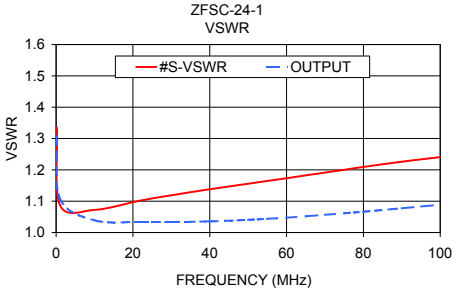
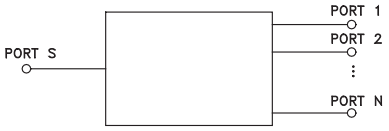
VSWR



electrical schematic



Notes

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