

Coaxial

Power Splitter/Combiner

ZFSC-24-1

24 Way-0° 50Ω 0.2 to 100 MHz

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.

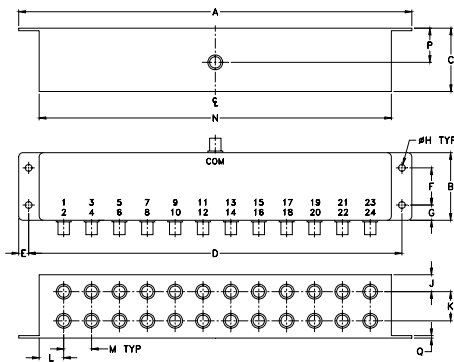
Permanent damage may occur if any of these limits are

Coaxial Connections

SUM PORT S (COM)

PORT 1,2,3,4,.....,24 1,2,3,4,.....,24

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

Features

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

Applications

- HF/VHF
- instrumentation
- test set-ups



Generic photo used for illustration purposes only

BNC version shown

CASE STYLE: R31

Connectors Model

BNC ZFSC-24-1

SMA ZFSC-24-1-S

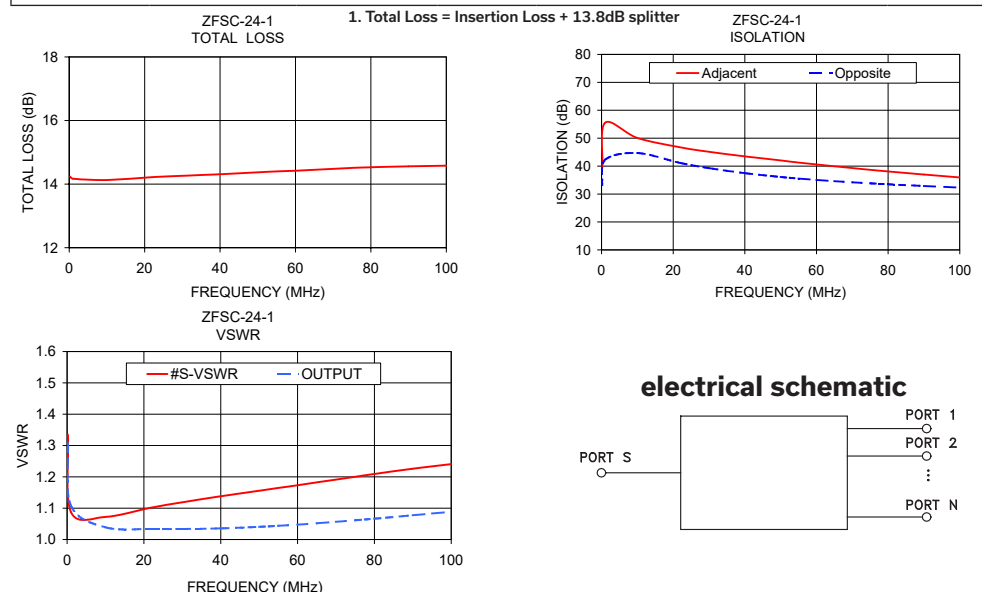
Electrical Specifications

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

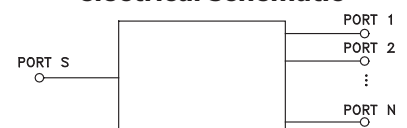
L = low range [f_L to 10 f_L] M = mid range [10 f_L to $f_U/2$] U = upper range

Typical Performance Data

Freq. (MHz)	Insertion Loss (dB)	Amplitude Unbalance (dB)	Isolation (dB)		VSWR S	VSWR OUTPUT
			Adjacent	Opposite		
	S-1					
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



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.
- C. The parts covered by this specification document are subject to Mini-Circuits 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-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp


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