

Coaxial Power Splitter/Combiner

ZFSC-24-11-75

24 Way-0° 75Ω 1 to 200 MHz



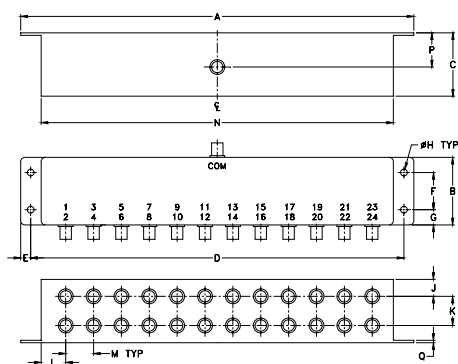
Maximum Ratings

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 exceeded.	

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

- high isolation, 33 dB typ.
- low insertion loss, 0.8 dB typ.

Applications

- HF/VHF
- instrumentation
- test set-ups

BNC version shown

CASE STYLE: R31

Connectors	Model
BNC	ZFSC-24-11-75

Electrical Specifications

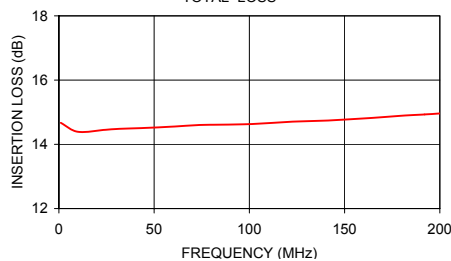
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 13.8 dB						AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U
	Typ.	Min.	Typ.	Min.	Typ.	Typ.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.
1-200	35	25	33	20	27	20	0.6	1.3	0.8	1.5	1.1	2.0	0.6	0.4	0.6

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]

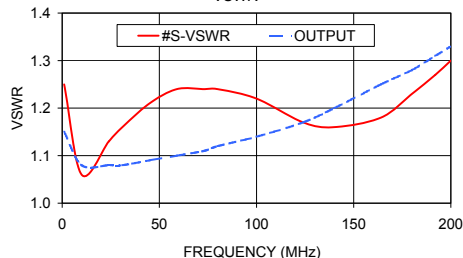
Typical Performance Data

Freq. (MHz)	Insertion Loss (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR OUTPUT
			S-1	Adjacent Opposite			
1.00	14.67	0.30	31.76	40.16	1.39	1.25	1.15
10.00	14.39	0.20	37.20	38.39	1.14	1.06	1.08
24.00	14.45	0.16	37.13	36.83	2.04	1.13	1.08
31.00	14.48	0.15	36.74	36.01	2.51	1.16	1.08
45.00	14.51	0.16	35.93	34.79	3.27	1.21	1.09
59.00	14.55	0.17	34.96	33.80	3.95	1.24	1.10
73.00	14.60	0.17	34.02	33.01	4.66	1.24	1.11
80.00	14.61	0.17	33.57	32.73	5.16	1.24	1.12
100.00	14.63	0.17	32.35	31.97	6.23	1.22	1.14
124.00	14.71	0.19	31.21	31.49	7.69	1.17	1.17
140.00	14.74	0.20	30.61	31.42	8.64	1.16	1.20
164.00	14.82	0.22	29.90	31.80	9.96	1.18	1.25
180.00	14.89	0.23	29.58	32.37	10.88	1.23	1.28
192.00	14.93	0.25	29.42	33.10	11.63	1.27	1.31
200.00	14.96	0.26	29.27	33.67	12.12	1.30	1.33

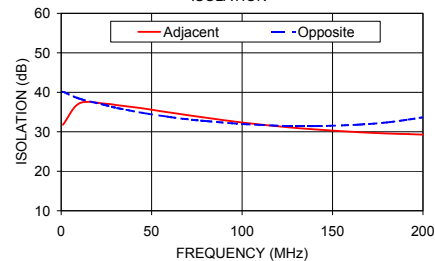
ZFSC-24-11-75
TOTAL LOSS



ZFSC-24-11-75
VSWR



1. Total Loss = Insertion Loss + 13.8dB splitter loss. ZFSC-24-11-75
ISOLATION



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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