

Coaxial

Power Splitter/Combiner

ZFSC-48-1

48 Way-0° 50Ω 10 to 300 MHz

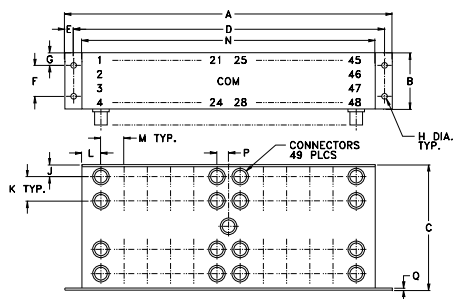
Maximum Ratings

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.....,48	1,2,3,4.....,48

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
9.31	1.60	3.57	8.84	.25	.88	.36	.160
236.47	40.64	90.68	224.54	6.35	22.35	9.14	4.06

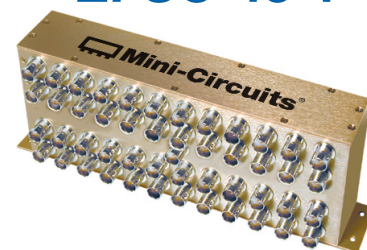
J	K	L	M	N	P	Q	wt
.34	.69	.54	.66	8.34	.33	.06	grams
8.64	17.53	13.72	16.76	211.84	8.38	1.52	1090.0

Features

- good isolation, 28 dB typ.
- rugged shielded case

Applications

- HF/VHF
- instrumentation
- test set-ups



BNC version shown

CASE STYLE: HH68

Connectors	Model
BNC	ZFSC-48-1
SMA	ZFSC-48-1-S

Electrical Specifications

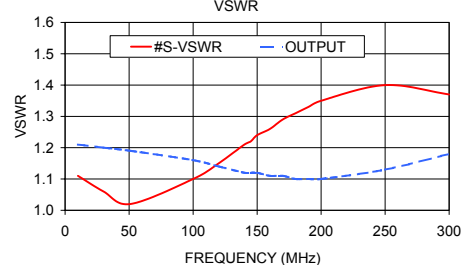
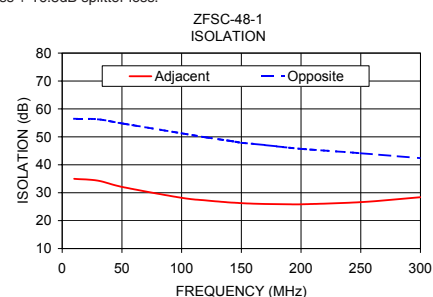
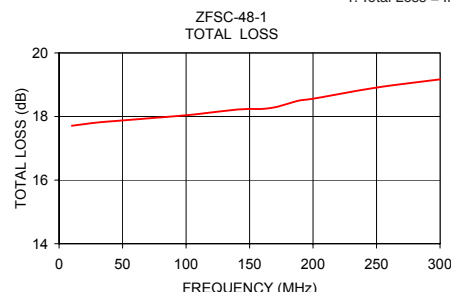
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 16.8 dB						AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.
10-300	30	25	28	20	23	20	1.2	2.0	2.1	2.5	2.8	4.0	0.8	0.9	1.2

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)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)		VSWR S	VSWR OUTPUT
			Adjacent	Opposite		
10.00	17.71	0.27	34.97	56.49	1.11	1.21
30.00	17.81	0.25	34.32	56.28	1.06	1.20
51.00	17.88	0.31	31.99	54.74	1.02	1.19
100.00	18.04	0.47	28.18	51.27	1.10	1.16
120.00	18.13	0.54	27.25	49.83	1.15	1.14
140.00	18.22	0.57	26.52	48.59	1.21	1.12
145.00	18.23	0.58	26.40	48.27	1.22	1.12
150.00	18.24	0.58	26.28	47.89	1.24	1.12
160.00	18.24	0.57	26.08	47.49	1.26	1.11
170.00	18.29	0.56	25.95	47.06	1.29	1.11
180.00	18.40	0.53	25.90	46.59	1.31	1.10
190.00	18.51	0.50	25.86	46.13	1.33	1.10
200.00	18.56	0.47	25.86	45.71	1.35	1.10
250.00	18.91	0.50	26.62	44.13	1.40	1.13
300.00	19.17	0.82	28.40	42.37	1.37	1.18

1. Total Loss = Insertion Loss + 16.8dB splitter loss.



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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