

Coaxial Power Splitter/Combiner

48 Way-0° 50Ω 10 to 300 MHz

ZFSC-48-1

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

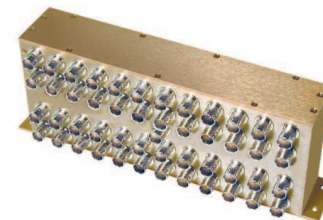
SUM PORT	S (COM)
PORT 1,2,3,4.....,48	1,2,3,4.....,48

Features

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

Applications

- HF/VHF
- instrumentation
- test set-ups



BNC version shown

CASE STYLE: HH68

Connectors	Model	Price	Qty.
BNC	ZFSC-48-1	\$590.00	(1-9)
SMA	ZFSC-48-1-S	\$720.00	(1-9)

Electrical Specifications

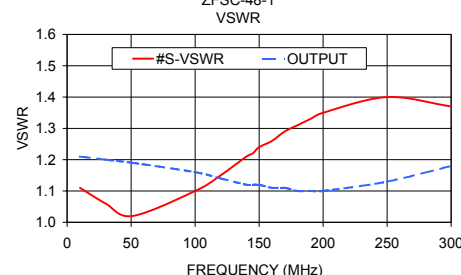
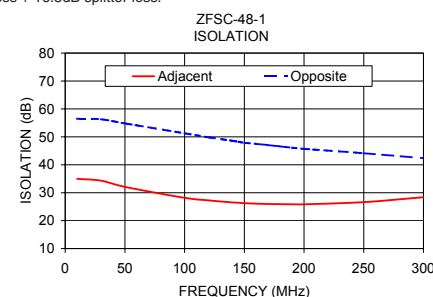
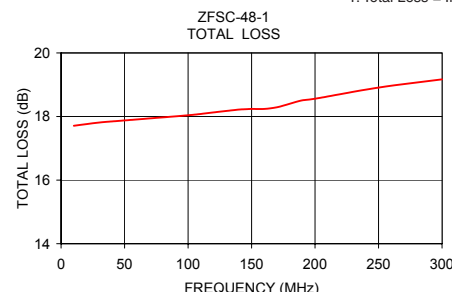
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 16.8 dB						AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.
f _L -f _U	30	25	28	20	23	20	1.2	2.0	2.1	2.5	2.8	4.0	0.8	0.9	1.2

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 Loss¹ (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



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