

Power Splitter/Combiner

ZFSC-12-1W-75+

12 Way-0° 75Ω 5 to 860 MHz

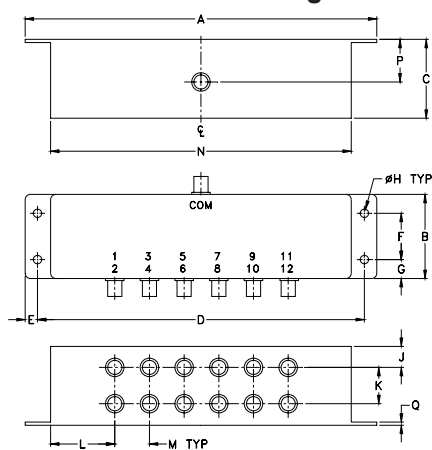
Maximum Ratings

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,...,12	1,2,3,...,12

Outline Drawing



Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H
6.69	1.60	1.50	6.22	.24	.88	.36	.160
169.93	40.64	38.10	157.99	6.10	22.35	9.14	4.06
J	K	L	M	N	P	Q	wt.
.40	.69	1.22	.66	5.72	.81	.06	grams
10.16	17.53	30.99	16.76	145.29	20.57	1.52	310.0

Features

- high isolation, 35 dB typ.
- excellent amplitude unbalance, 0.2 dB typ.
- rugged shielded case

Applications

- VHF/UHF
- federal and defense communications
- instrumentation



CASE STYLE: R67

Connectors	Model
BNC	ZFSC-12-1W-75+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

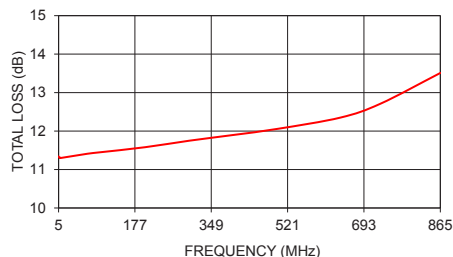
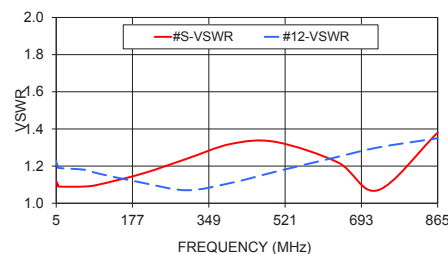
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 10.8 dB						PHASE UNBALANCE (Degrees)			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.	Max.	Max.	Max.
5-860	33	22	30	20	26	18	0.5	1.2	0.8	2.5	1.6	4.2	2	8	20	0.7	0.8	1.5

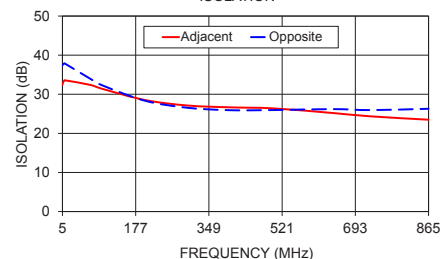
L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 12
			Adjacent	Opposite			
5.00	11.34	0.11	32.45	37.42	0.47	1.12	1.23
6.00	11.32	0.11	32.87	37.57	0.47	1.11	1.21
7.00	11.31	0.10	33.13	37.71	0.44	1.11	1.21
8.00	11.30	0.10	33.33	37.80	0.45	1.10	1.20
9.00	11.31	0.09	33.47	37.86	0.41	1.10	1.20
10.00	11.30	0.10	33.58	37.90	0.45	1.09	1.19
70.00	11.41	0.04	32.40	33.98	0.74	1.09	1.18
100.00	11.45	0.06	31.34	32.22	0.69	1.10	1.16
200.00	11.58	0.08	28.50	28.31	0.84	1.16	1.11
300.00	11.75	0.12	27.11	26.53	0.96	1.24	1.07
400.00	11.90	0.19	26.65	25.92	0.96	1.32	1.11
500.00	12.06	0.25	26.39	25.96	1.32	1.33	1.17
640.00	12.35	0.40	25.20	26.20	2.75	1.22	1.25
730.00	12.71	0.49	24.34	25.95	3.88	1.07	1.30
865.00	13.51	0.66	23.49	26.29	5.58	1.38	1.35

ZFSC-12-1W-75+
TOTAL LOSSZFSC-12-1W-75+
VSWR

1. Total Loss = Insertion Loss + 10.8dB splitter loss.

ZFSC-12-1W-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.
 C. The parts covered by this specification document are subject to Mini-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

