

Coaxial

Power Splitter/Combiner

12 Way-0° 75Ω 10 to 200 MHz

ZFSC-12-1-75+

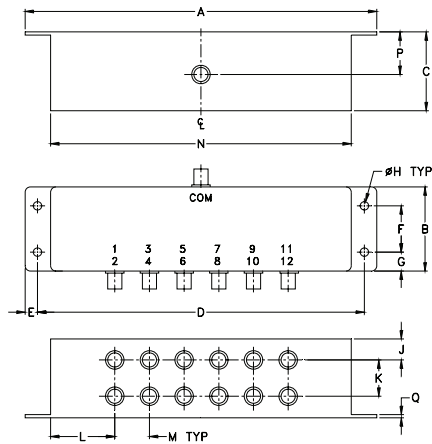
Maximum Ratings

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, 30 dB typ.
- rugged shielded case

Applications

- VHF
- communication systems
- instrumentation



Generic photo used for illustration purposes only

CASE STYLE: R67

Connectors	Model
BNC	ZFSC-12-1-75+

+RoHS Compliant

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

Electrical Specifications

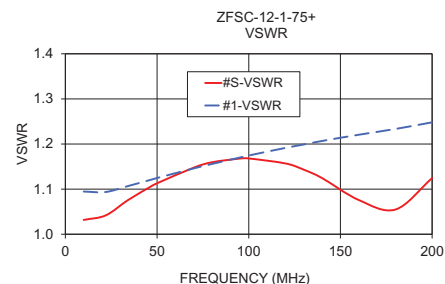
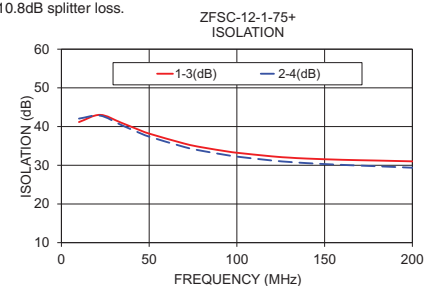
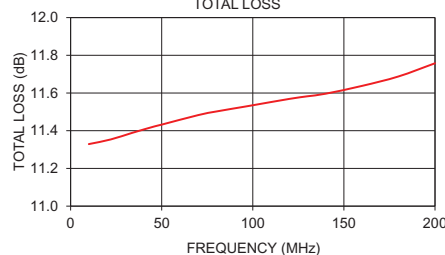
FREQ. RANGE (MHz)	ISOLATION (dB)				INSERTION LOSS (dB) ABOVE 10.8 dB				PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)	
	L		U		L		U		L	U	L	U
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.
10-200	35	27	27	20	0.5	0.8	0.8	1.3	—	—	0.25	0.4

L = low range [f_L to $10 f_L$]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
			1-3	2-4			
10.00	11.33	0.02	41.16	42.05	0.57	1.03	1.09
22.00	11.35	0.02	43.02	42.83	1.00	1.04	1.09
34.00	11.39	0.02	41.01	40.42	1.54	1.08	1.11
46.00	11.42	0.02	38.82	38.07	1.66	1.10	1.12
50.00	11.43	0.02	38.18	37.40	1.67	1.11	1.12
70.00	11.48	0.02	35.61	34.72	1.58	1.15	1.15
80.00	11.50	0.02	34.65	33.73	1.70	1.16	1.16
95.00	11.53	0.03	33.53	32.56	1.89	1.17	1.17
100.00	11.54	0.03	33.23	32.24	1.90	1.17	1.17
120.00	11.57	0.04	32.30	31.23	1.98	1.16	1.19
130.00	11.58	0.05	31.97	30.85	2.06	1.14	1.20
140.00	11.60	0.06	31.73	30.55	2.10	1.12	1.21
160.00	11.64	0.09	31.41	30.10	2.24	1.08	1.22
180.00	11.69	0.12	31.22	29.74	2.39	1.05	1.23
200.00	11.76	0.15	31.01	29.36	2.65	1.12	1.25

ZFSC-12-1-75+ 1. Total Loss = Insertion Loss + 10.8dB 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.
 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


www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

 REV. D
 M151107
 ZFSC-12-1-75+
 HY/TD/CP/AM
 170525