

Coaxial

Power Splitter/Combiner

ZFSC-16-1-75+

16 Way-0° 75Ω 1 to 150 MHz

Maximum Ratings

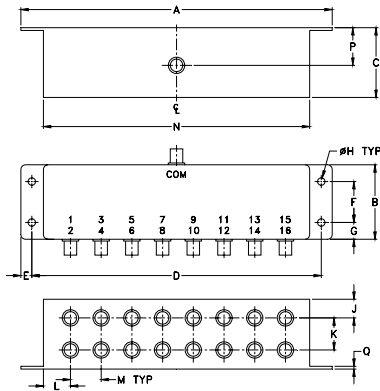
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.87W max.

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	S(COM)
PORT 1,2,3,.....,16	1,2,3,.....,16

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	.55	.66	5.72	.81	.06	grams
10.16	17.53	13.97	16.76	145.29	20.57	1.52	320

Features

- low insertion loss, 0.7 dB typ.
- high isolation, 30 dB typ.
- excellent amplitude unbalance, 0.2 dB typ.
- rugged shielded case

Applications

- HF/VHF
- communication systems
- instrumentation



Generic photo used for illustration purposes only
BNC version shown
CASE STYLE: R30

Connectors	Model
BNC	ZFSC-16-1-75+

+RoHS Compliant

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

Electrical Specifications

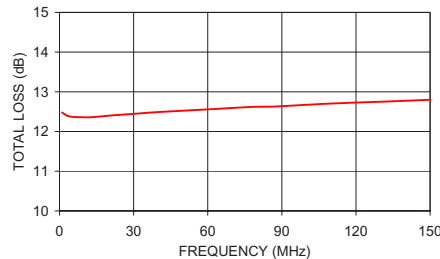
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 12 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
f_L - f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-150	30	25	30	25	25	20	0.8	1.1	0.7	1.1	1.0	1.3	3	6	10	0.4	0.2	0.4

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

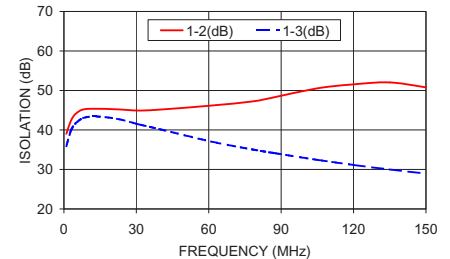
Freq. (MHz)	Total Loss¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 1
	S-1		Adjacent	Opposite			
1.00	12.48	0.26	39.02	35.90	1.42	1.31	1.22
3.00	12.40	0.18	42.46	39.97	0.90	1.28	1.14
5.00	12.37	0.15	44.14	41.72	0.75	1.29	1.10
8.00	12.36	0.14	45.18	43.00	0.65	1.30	1.08
13.00	12.36	0.13	45.36	43.42	0.66	1.30	1.07
22.00	12.41	0.11	45.22	42.83	0.75	1.29	1.06
31.00	12.45	0.07	44.91	41.43	0.84	1.29	1.07
40.00	12.49	0.07	45.16	40.14	0.85	1.28	1.08
61.00	12.56	0.08	46.17	37.07	0.95	1.25	1.11
78.00	12.62	0.07	47.21	35.06	0.98	1.22	1.13
87.00	12.63	0.10	48.26	34.15	0.94	1.20	1.14
105.00	12.69	0.10	50.55	32.42	0.99	1.17	1.15
120.00	12.73	0.11	51.55	31.15	0.96	1.15	1.17
135.00	12.76	0.13	52.04	30.00	1.07	1.13	1.19
150.00	12.80	0.14	50.80	28.97	1.18	1.13	1.21

ZFSC-16-1-75+
TOTAL LOSS

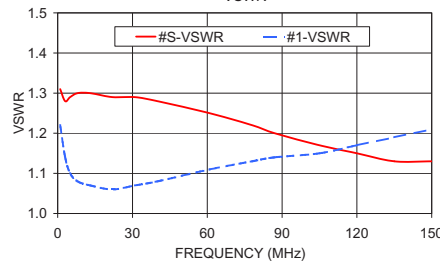


1. Total Loss = Insertion Loss + 12dB splitter loss.

ZFSC-16-1-75+
ISOLATION



ZFSC-16-1-75+
VSWR



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



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