

Coaxial Power Splitter/Combiner

ZFSC-16-1+ ZFSC-16-1

16 Way-0° 50Ω 0.5 to 125 MHz

Maximum Ratings

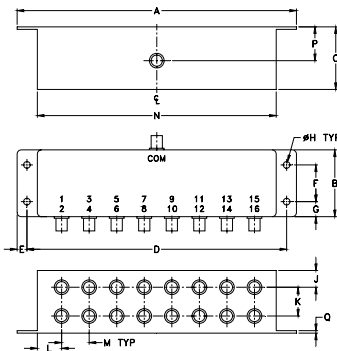
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.87W max.

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

- good isolation, 25 dB typ.
- excellent amplitude unbalance, 0.2 dB typ.
- rugged shielded case

Applications

- HF/VHF
- instrumentation
- communication systems



BNC version shown

CASE STYLE: R30

Connectors	Model
BNC	ZFSC-16-1(+)
SMA	ZFSC-16-1-S(+)

+RoHS Compliant

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

Electrical Specifications

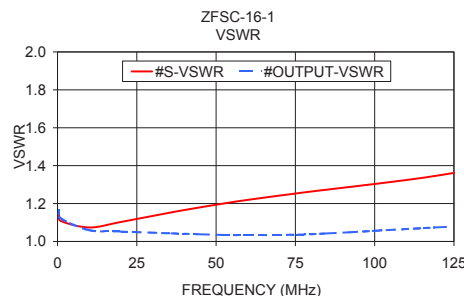
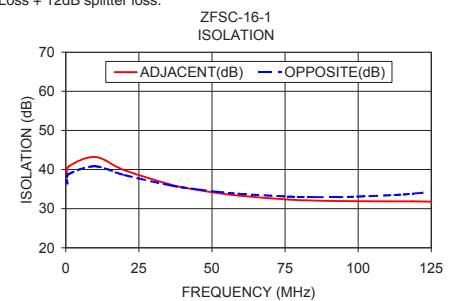
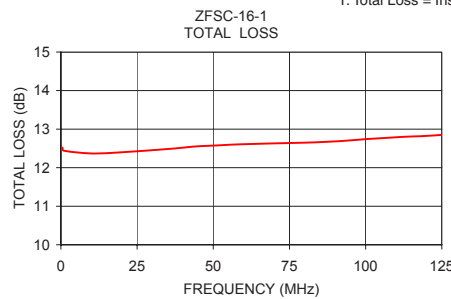
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 12 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
0.5-125	30	24	25	18	20	15	1.0	1.2	1.1	1.3	1.2	1.4	1	3	5	0.3	0.2	0.5

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 1
			Adjacent	Opposite			
	S-1						
0.50	12.52	0.02	38.29	36.39	0.35	1.15	1.17
1.00	12.44	0.02	40.79	38.80	0.28	1.11	1.12
10.00	12.37	0.03	43.22	40.82	0.22	1.07	1.06
20.00	12.40	0.02	39.84	38.60	0.24	1.10	1.05
36.00	12.49	0.03	36.13	35.94	0.51	1.15	1.04
44.00	12.55	0.03	34.93	35.05	0.61	1.18	1.04
52.00	12.58	0.04	33.98	34.30	0.63	1.20	1.03
60.00	12.61	0.04	33.28	33.77	0.73	1.22	1.03
76.00	12.64	0.03	32.34	33.09	0.90	1.26	1.04
84.00	12.66	0.05	32.10	32.96	1.04	1.27	1.04
92.00	12.69	0.06	31.97	32.94	1.17	1.29	1.05
100.00	12.74	0.06	31.92	33.09	1.24	1.30	1.06
112.50	12.80	0.05	31.88	33.50	1.42	1.33	1.07
118.75	12.82	0.04	31.88	33.85	1.52	1.34	1.07
125.00	12.85	0.07	31.79	34.29	1.58	1.36	1.08

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



electrical schematic



Notes

- 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.
- 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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