

Coaxial

Power Splitter/Combiner

ZFSC-16-12+

16 Way-0° 50Ω 0.1 to 200 MHz



Generic photo used for illustration purposes only

BNC version shown
CASE STYLE: R30

Connectors	Model
BNC	ZFSC-16-12+
SMA	ZFSC-16-12-S+

+RoHS Compliant

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

Maximum Ratings

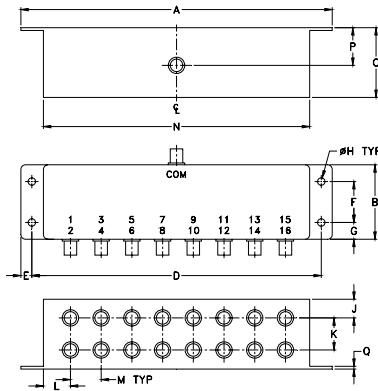
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.87W max.

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

Coaxial Connections

SUM PORT	S
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, 27 dB typ.
- excellent amplitude unbalance, 0.2 dB typ.
- rugged shielded case

Applications

- HF/VHF
- communication systems
- instrumentation

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.
0.1-200	33	20	27	20	26	20	0.6	1.5	0.7	1.0	0.9	1.5	2	6	9	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]

* At low range frequency band (f_L to $10 f_L$), linearly derate maximum input power by 13 dB typ.

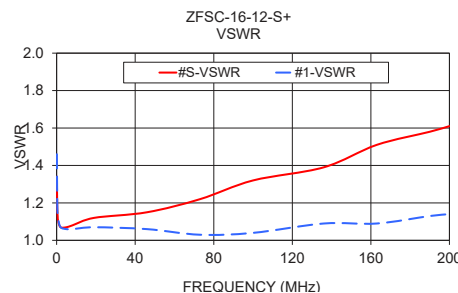
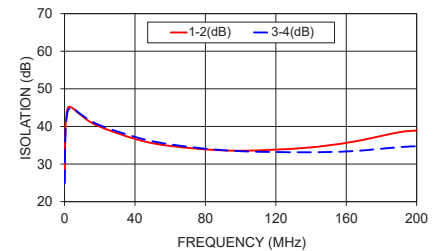
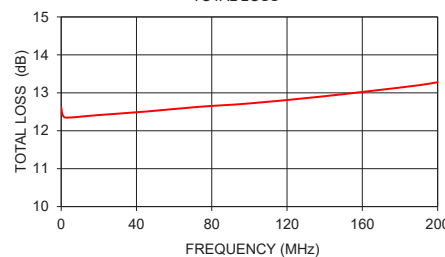
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR OUTPUT
			1-2	3-4			
	S-1		1-2	3-4			
0.10	12.60	0.04	25.58	24.82	0.62	1.34	1.46
0.30	12.50	0.02	34.87	33.94	0.19	1.17	1.19
0.50	12.47	0.02	38.86	37.80	0.17	1.13	1.14
0.80	12.41	0.02	41.54	40.38	0.13	1.10	1.11
2.00	12.35	0.01	45.05	44.32	0.10	1.07	1.07
5.00	12.35	0.01	44.72	44.92	0.09	1.07	1.06
8.00	12.36	0.01	43.49	43.69	0.11	1.08	1.06
19.00	12.41	0.01	40.14	40.52	0.28	1.12	1.07
46.00	12.51	0.01	35.94	36.47	0.56	1.15	1.06
73.00	12.63	0.03	34.17	34.44	0.93	1.22	1.03
100.00	12.72	0.03	33.55	33.42	1.34	1.32	1.04
136.00	12.89	0.05	34.28	33.13	1.93	1.39	1.09
163.00	13.04	0.06	35.86	33.42	2.51	1.51	1.09
190.00	13.20	0.09	38.46	34.49	2.95	1.58	1.13
200.00	13.28	0.11	38.92	34.74	3.23	1.61	1.14

ZFSC-16-12-S+
TOTAL LOSS

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

ZFSC-16-12-S+
ISOLATION



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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