

# Coaxial Power Splitter/Combiner

## ZFSC-12-1+ ZFSC-12-1

12 Way-0° 50Ω 1 to 200 MHz

### Maximum Ratings

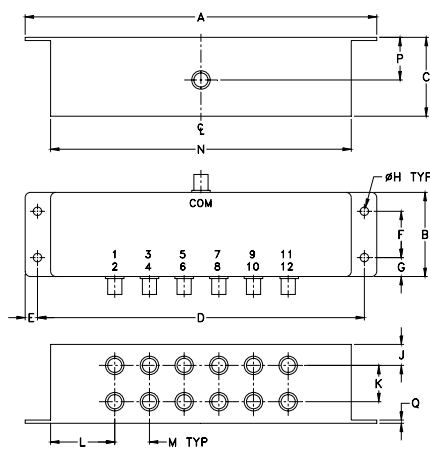
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.87W max.

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

- HF/VHF
- instrumentation
- communication systems



BNC version shown  
CASE STYLE: R67

Connectors	Model	Price	Qty.
BNC	ZFSC-12-1(+)	\$174.95	(1-9)
SMA	ZFSC-12-1-S(+)	\$209.95	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

### Electrical Specifications

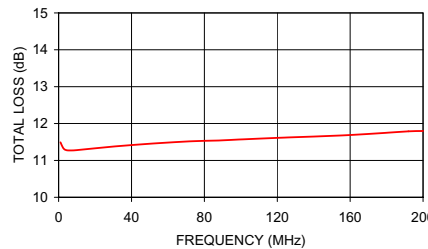
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 10.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f <sub>L</sub> -f <sub>U</sub>							0.8	1.2	1.1	1.4	1.3	1.6	4	8	16	0.3	0.2	0.3
1-200	30	25	35	20	28	20												

L = low range [f<sub>L</sub> to 10 f<sub>L</sub>] M = mid range [10 f<sub>L</sub> to f<sub>U</sub>/2] U = upper range [f<sub>U</sub>/2 to f<sub>U</sub>]

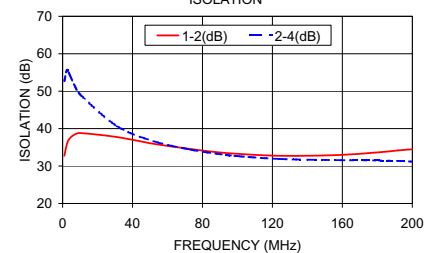
### Typical Performance Data

Freq. (MHz)	Total Loss <sup>1</sup> (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 12
			1-3	2-4			
1.00	11.49	0.03	32.74	52.71	0.08	1.23	1.28
2.60	11.33	0.02	36.03	55.64	0.08	1.12	1.19
4.20	11.28	0.01	37.46	54.20	0.07	1.09	1.16
7.00	11.27	0.01	38.46	51.38	0.06	1.07	1.14
10.00	11.28	0.01	38.83	49.13	0.09	1.06	1.14
31.00	11.38	0.01	37.76	40.69	0.34	1.05	1.13
52.00	11.46	0.02	35.95	36.66	0.59	1.05	1.13
73.00	11.52	0.03	34.57	34.40	0.82	1.06	1.12
88.00	11.54	0.04	33.72	33.29	0.97	1.07	1.11
100.00	11.57	0.06	33.27	32.66	1.14	1.07	1.10
124.00	11.62	0.08	32.73	31.90	1.42	1.09	1.10
156.00	11.68	0.13	32.91	31.60	1.87	1.10	1.11
180.00	11.75	0.18	33.65	31.49	2.23	1.12	1.13
192.00	11.79	0.21	34.19	31.36	2.43	1.13	1.15
200.00	11.80	0.22	34.48	31.18	2.59	1.14	1.16

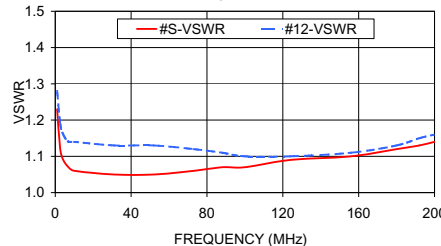
ZFSC-12-1 TOTAL LOSS



ZFSC-12-1 ISOLATION



ZFSC-12-1 VSWR



### electrical schematic



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