

Coaxial

Power Splitter/Combiner

12 Way-0° 50Ω

1 to 200 MHz

ZFSC-12-1+
ZFSC-12-1

 BNC version shown
 CASE STYLE: R67

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.

Coaxial Connections

SUM PORT	S(COM)
PORT 1,2,3.....,12	1,2,3.....,12

Features

- high isolation, 35 dB typ.
- excellent amplitude unbalance, 0.2dB typ.
- rugged, shielded case

Applications

- HF/VHF
- instrumentation
- communication systems

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.

Splitter Electrical Specifications

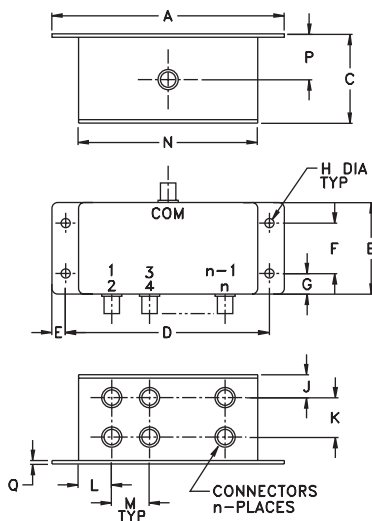
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 10.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f _L -f _U																		
1-200	30	25	35	20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

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

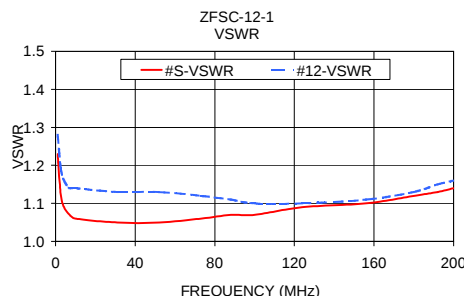
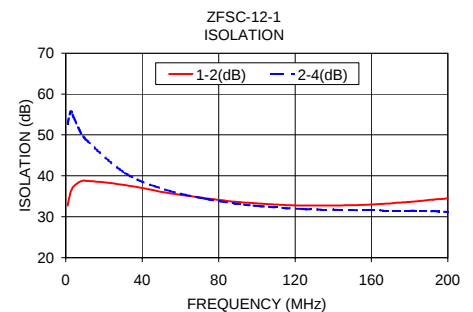
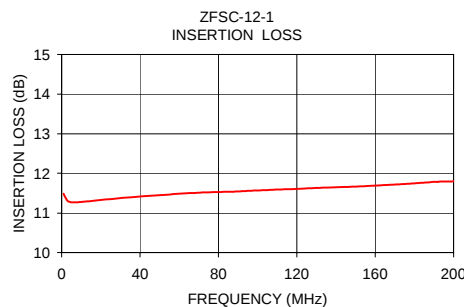
Frequency (MHz)	Insertion Loss (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 12
			1-2	2-4			
1.00	11.49	0.03	32.74	52.71	0.08	1.23	1.28
2.60	11.33	0.02	36.03	55.64	0.08	1.12	1.19
4.20	11.28	0.01	37.46	54.20	0.07	1.09	1.16
7.00	11.27	0.01	38.46	51.38	0.06	1.07	1.14
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

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
7.11	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	500



electrical schematic



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