

Coaxial

Power Splitter/Combiner

ZFSC-12-175+ ZFSC-12-175

12 Way-0° 75Ω 10 to 500 MHz

Maximum Ratings

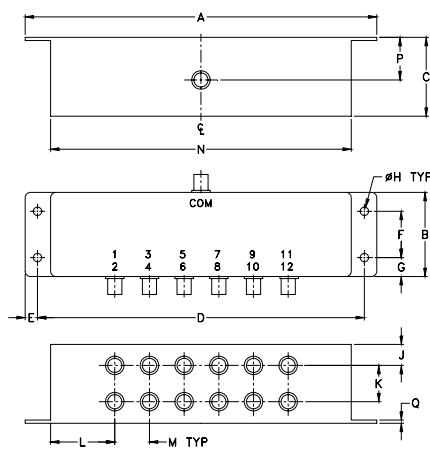
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.87W max.

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

- wideband, 10 to 500 MHz
- good isolation, 24 dB typ.
- rugged shielded case

Applications

- VHF/UHF
- communication systems
- instrumentation



BNC version shown
CASE STYLE: R67

Connectors	Model	Price	Qty.
BNC	ZFSC-12-175(+)	\$197.95	(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.

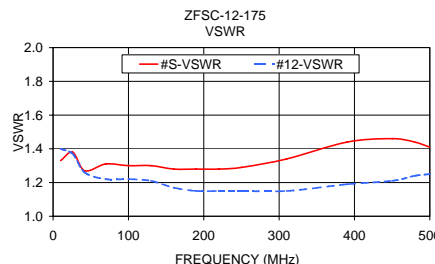
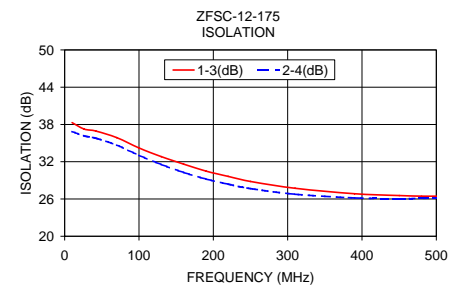
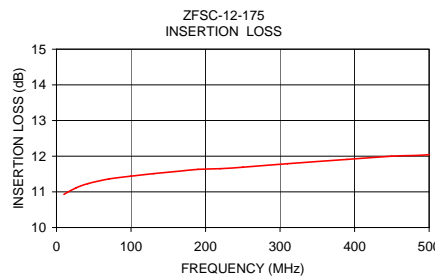
Electrical Specifications

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						
f_L - f_U	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Max.	Typ. Max.	Typ. Max.	Max.	Max.	Max.	Max.	Max.	Max.						
10-500	23	20	24	20	22	18	0.9	1.2	1.0	1.3	1.2	2.0	—	—	—	0.4	0.5	0.8

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)	Insertion Loss (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 12
			1-3	2-4			
10.00	10.93	0.25	38.30	36.86	1.05	1.33	1.40
26.00	11.11	0.17	37.26	36.17	1.29	1.38	1.37
42.00	11.23	0.11	36.94	35.79	1.41	1.27	1.26
70.00	11.36	0.10	35.88	34.68	1.49	1.31	1.22
100.00	11.44	0.11	34.22	33.04	1.30	1.30	1.22
130.00	11.51	0.16	32.82	31.56	1.06	1.30	1.21
160.00	11.57	0.18	31.62	30.28	0.94	1.28	1.17
190.00	11.63	0.19	30.50	29.23	0.96	1.28	1.15
220.00	11.65	0.19	29.64	28.39	1.05	1.28	1.15
250.00	11.69	0.19	28.82	27.68	1.08	1.29	1.15
310.00	11.79	0.21	27.73	26.77	1.38	1.34	1.15
390.00	11.91	0.25	26.84	26.18	1.47	1.44	1.19
450.00	12.00	0.33	26.56	26.07	1.57	1.46	1.21
480.00	12.02	0.37	26.45	26.11	1.55	1.44	1.24
500.00	12.04	0.40	26.46	26.14	1.65	1.41	1.25



electrical schematic



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