Coaxial

Power Splitter/Combiner

ZFSC-12-175+
ZFSC-12-175

12 Way-0° 75Ω 10 to 500 MHz

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.

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

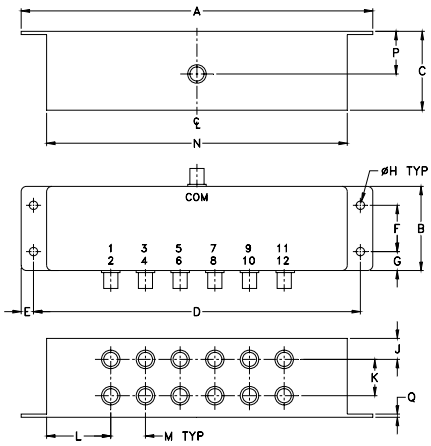
Features

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

Applications

- VHF/UHF
- communication systems
- instrumentation

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

Electrical Specifications

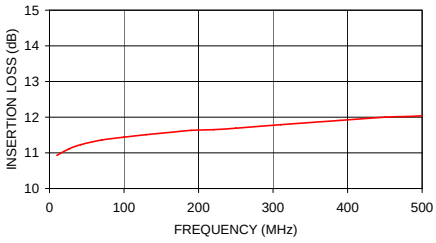
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 10.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L-f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
10-500	23	20	24	20	22	18	0.9	1.2	1.0	1.3	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

ZFSC-12-175
INSERTION LOSS



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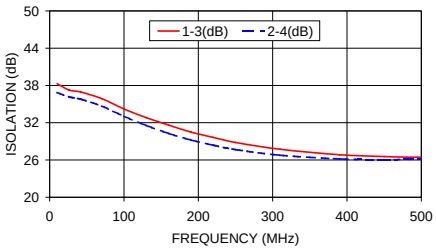
ISOLATION



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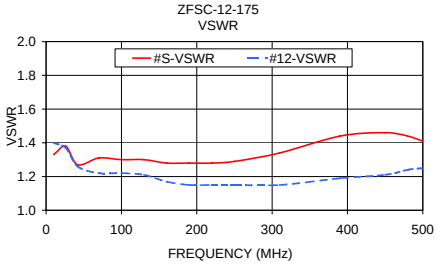
VSWR



electrical schematic