

Coaxial

Power Splitter/Combiner

12 Way-0°

75Ω

5 to 860 MHz

ZFSC-12-1W-75+
ZFSC-12-1W-75

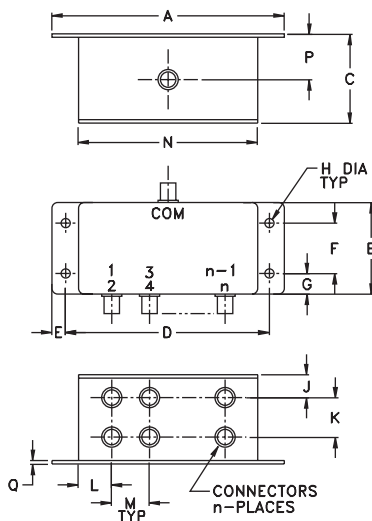

Maximum Ratings

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

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

Features

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

Applications

- VHF/UHF
- federal and defense communications
- instrumentation

CASE STYLE: R67

Connectors	Model	Price	Qty.
BNC	ZFSC-12-1W-75	\$199.95	(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

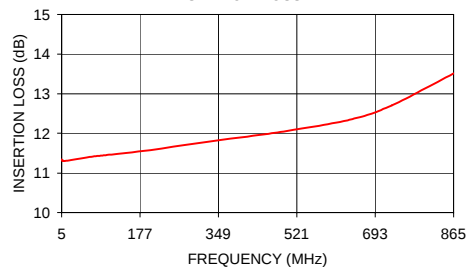
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 10.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f _L -f _U	33	22	30	20	26	18	0.5	1.2	0.8	2.5	1.6	4.2	2	8	20	0.7	0.8	1.5

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]

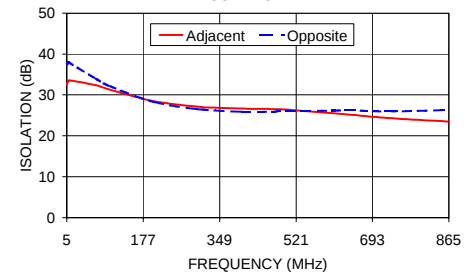
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 12
			Adjacent	Opposite			
5.00	11.34	0.11	32.45	37.42	0.47	1.12	1.23
6.00	11.32	0.11	32.87	37.57	0.47	1.11	1.21
7.00	11.31	0.10	33.13	37.71	0.44	1.11	1.21
8.00	11.30	0.10	33.33	37.80	0.45	1.10	1.20
9.00	11.31	0.09	33.47	37.86	0.41	1.10	1.20
10.00	11.30	0.10	33.58	37.90	0.45	1.09	1.19
70.00	11.41	0.04	32.40	33.98	0.74	1.09	1.18
100.00	11.45	0.06	31.34	32.22	0.69	1.10	1.16
200.00	11.58	0.08	28.50	28.31	0.84	1.16	1.11
300.00	11.75	0.12	27.11	26.53	0.96	1.24	1.07
400.00	11.90	0.19	26.65	25.92	0.96	1.32	1.11
500.00	12.06	0.25	26.39	25.96	1.32	1.33	1.17
640.00	12.35	0.40	25.20	26.20	2.75	1.22	1.25
730.00	12.71	0.49	24.34	25.95	3.88	1.07	1.30
865.00	13.51	0.66	23.49	26.29	5.58	1.38	1.35

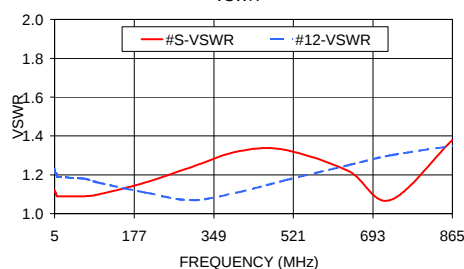
ZFSC-12-1W-75
INSERTION LOSS



ZFSC-12-1W-75
ISOLATION



ZFSC-12-1W-75
VSWR



electrical schematic



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