Coaxial

Power Splitter/Combiner

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

12 Way-0° 75Ω 5 to 860 MHz

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.

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

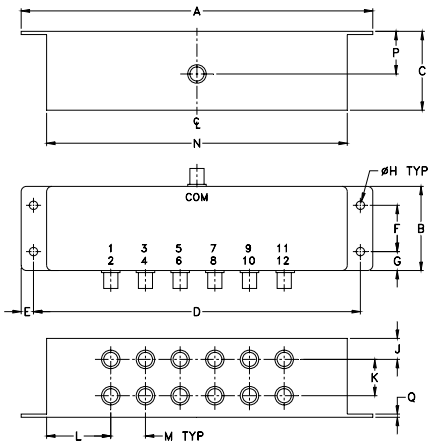
Features

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

Applications

- VHF/UHF
- federal and defense communications
- 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

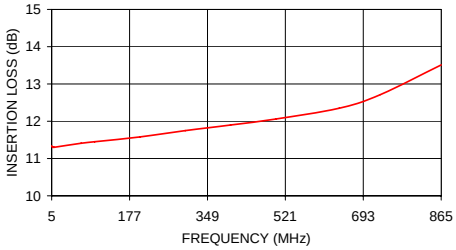
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 10.8 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L-f_U	Typ.	Min.	Typ.	Min.	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
5-860	33	22	30	20	26	18	0.5	1.2	0.8	2.5	1.6	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]

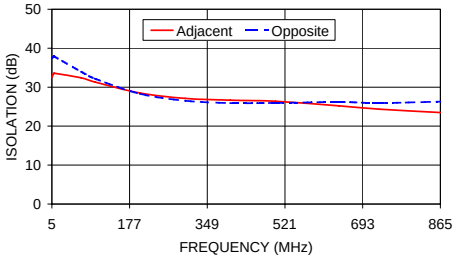
Typical Performance Data

Freq. (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

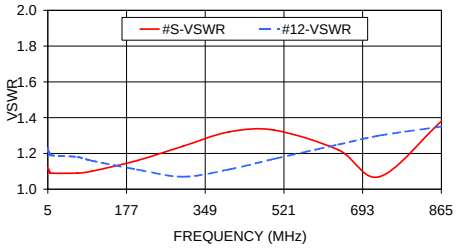
ZFSC-12-1W-75
INSERTION LOSS



ZFSC-12-1W-75
ISOLATION



ZFSC-12-1W-75
VSWR



electrical schematic

REV. B
M98898
ZFSC-12-1W-75
HY/TD/CP/AM
090827