

Coaxial

# Power Splitter/Combiner

ZFSC-8-1-75

8 Way-0° 75Ω

0.5 to 175 MHz

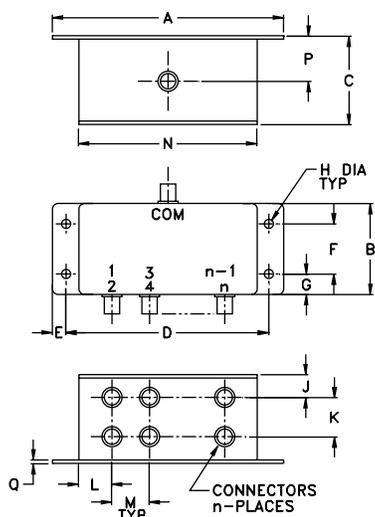
## Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.62W max.

## Coaxial Connections

SUM PORT	S(COM)
PORT 1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8

## Outline Drawing



## Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
4.06	1.60	1.50	3.56	.24	.88	.36	.160
103.12	40.64	38.10	90.42	6.10	22.35	9.14	4.06
J	K	L	M	N	P	Q	wt.
.40	.69	.58	.66	3.13	.80	.06	grams
10.16	17.53	14.73	16.76	79.50	20.32	1.52	300

## Features

- low insertion loss, 0.6 dB typ.
- good isolation, 30 dB typ.
- rugged, shielded case

## Applications

- HF/VHF
- radio communication
- federal and defense communications



CASE STYLE: R29

Connectors	Model	Price	Qty.
BNC	ZFSC-8-1-75	\$102.95	(1-9)

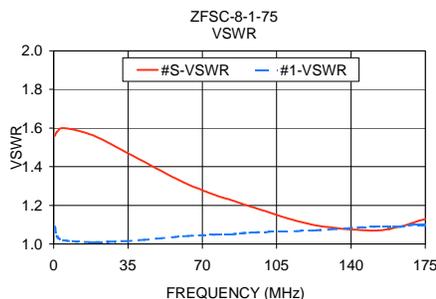
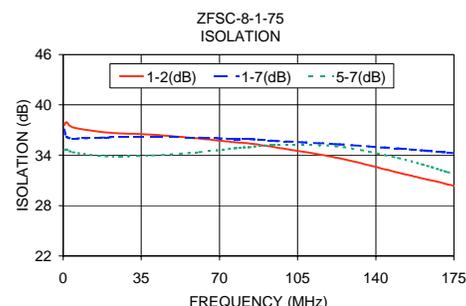
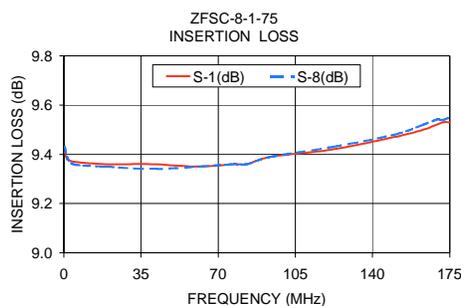
## Splitter Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 9 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.						
0.5-175	25	20	30	20	25	20	0.5	1.0	0.6	1.1	0.7	1.3	1.0	2.5	5.0	0.2	0.3	0.5

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 Unb. (deg.)	VSWR S	VSWR 1	VSWR 7
	S-1	S-2	S-3	S-4	S-6	S-8	1-2	1-7	3-4	5-7					
0.50	9.41	9.44	9.41	9.44	9.43	9.43	0.09	37.59	37.02	34.87	34.62	0.98	1.56	1.09	1.09
1.50	9.38	9.41	9.38	9.41	9.40	9.39	0.12	37.91	36.21	35.08	34.69	0.50	1.58	1.04	1.04
4.38	9.37	9.38	9.37	9.38	9.37	9.36	0.13	37.32	35.99	34.77	34.34	0.21	1.60	1.02	1.02
19.00	9.36	9.33	9.36	9.32	9.36	9.35	0.13	36.71	36.11	34.21	33.88	0.92	1.56	1.01	1.01
40.00	9.36	9.30	9.36	9.30	9.35	9.34	0.10	36.44	36.12	34.14	33.98	1.16	1.44	1.02	1.03
61.00	9.35	9.26	9.35	9.26	9.35	9.35	0.10	35.97	36.09	34.45	34.36	0.89	1.32	1.04	1.04
77.00	9.36	9.29	9.36	9.29	9.36	9.36	0.08	35.54	35.92	34.72	34.82	0.79	1.25	1.05	1.05
83.00	9.36	9.28	9.36	9.28	9.37	9.36	0.08	35.41	35.93	34.77	34.94	0.72	1.23	1.05	1.06
94.00	9.39	9.30	9.39	9.30	9.39	9.39	0.09	34.98	35.72	34.93	35.18	0.68	1.19	1.06	1.06
122.00	9.42	9.33	9.42	9.33	9.43	9.43	0.10	33.72	35.31	34.50	35.08	0.51	1.10	1.07	1.08
150.00	9.47	9.38	9.47	9.38	9.48	9.48	0.11	31.93	34.78	32.94	33.65	0.65	1.07	1.09	1.10
163.00	9.50	9.41	9.51	9.41	9.52	9.52	0.11	31.10	34.52	31.95	32.72	0.75	1.09	1.09	1.11
169.00	9.52	9.43	9.53	9.43	9.54	9.54	0.12	30.74	34.39	31.47	32.24	0.76	1.11	1.10	1.11
172.00	9.53	9.43	9.53	9.43	9.54	9.54	0.11	30.53	34.30	31.23	32.00	0.80	1.12	1.10	1.11
175.00	9.53	9.44	9.54	9.44	9.56	9.55	0.12	30.33	34.25	31.03	31.79	0.78	1.13	1.10	1.11



## electrical schematic

