

Coaxial

Power Splitter/Combiner

8 Way-0° 75Ω 0.5 to 175 MHz

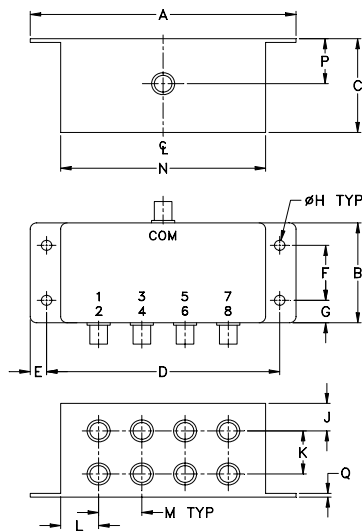
Maximum Ratings

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.
Permanent damage may occur if any of these limits are exceeded.	

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	.72	.06	grams
10.16	17.53	14.73	16.76	79.50	18.29	1.52	200

Features

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

Applications

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



CASE STYLE: R29

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

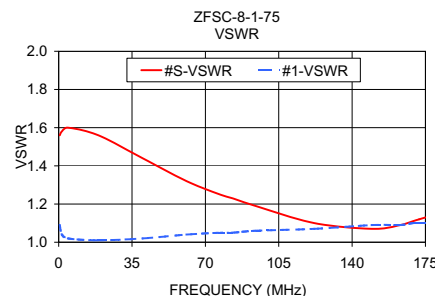
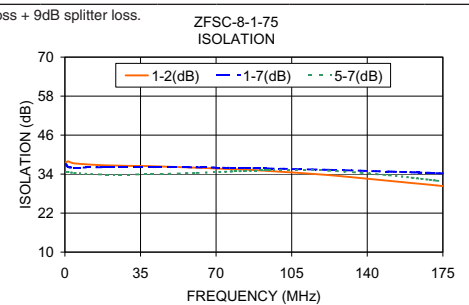
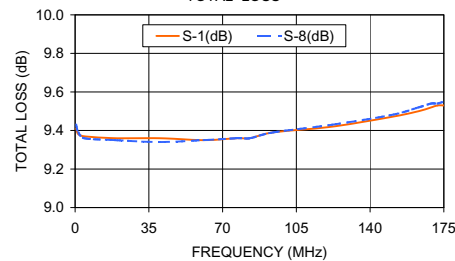
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 9.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
0.5-175	25	20	30	20	25	20	0.5	1.0	0.6	1.1	0.7	1.3	1.0	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]

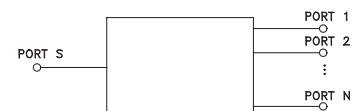
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)						Amp. Unbal. (dB)	Isolation (dB)				Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 8
	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

1. Total Loss = Insertion Loss + 9dB splitter loss.



electrical schematic



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