

Coaxial

Power Splitter/Combiner

8 Way-0° 75Ω 5 to 1000 MHz

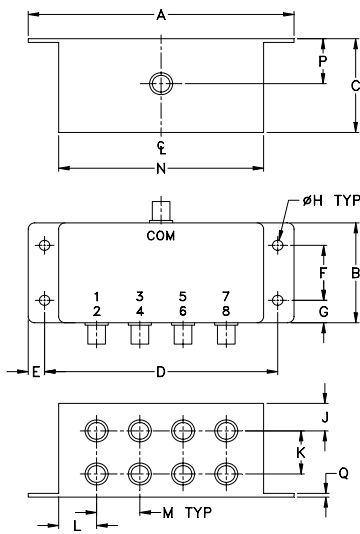
Maximum Ratings

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	1.57	3.56	.24	.88	.36	.160
103.12	40.64	39.88	90.42	6.10	22.35	9.14	4.06
J	K	L	M	N	P	Q	wt.
.43	.69	.58	.66	3.13	.79	.13	grams
10.92	17.53	14.73	16.76	79.50	20.07	3.30	200

Features

- wideband, 5 to 1000 MHz
- low insertion loss, 0.6 dB typ.
- good isolation, 25 dB typ.
- rugged shielded case

Applications

- VHF/UHF
- cellular
- CATV
- communication systems



CASE STYLE: R29

Connectors	Model	Price	Qty.
BNC	ZFSC-8-4-75(+)	\$139.95	(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.
f _L -f _U																		
5-1000	35	20	25	16	20	15	0.4	1.0	0.6	1.6	1.6	2.7	2.0	7.0	13	0.3	0.5	1.2

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]

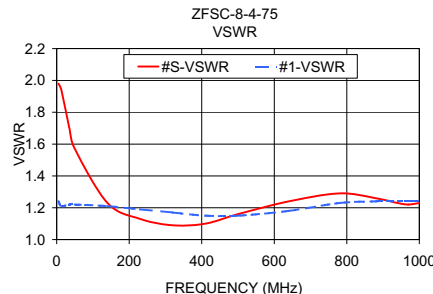
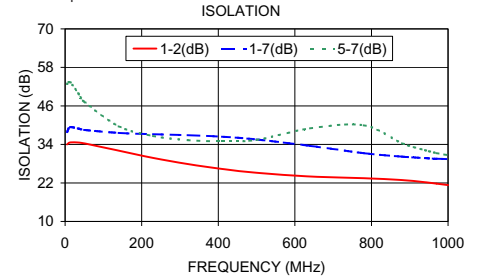
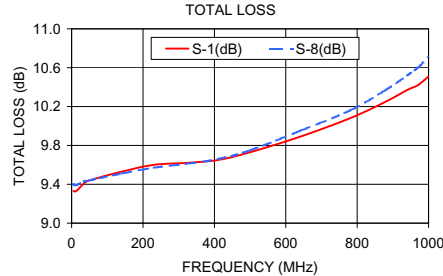
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)						Amplitude Unbalance (dB)	Isolation (dB)				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			
5.00	9.33	9.33	9.41	9.33	9.33	9.40	0.09	34.01	37.83	49.28	52.87	1.98	1.24	1.24
13.00	9.33	9.33	9.40	9.33	9.33	9.39	0.08	34.62	39.35	52.07	53.37	1.94	1.21	1.22
35.00	9.41	9.40	9.45	9.41	9.41	9.43	0.05	34.58	38.92	48.20	49.83	1.70	1.22	1.22
50.00	9.44	9.42	9.46	9.43	9.44	9.44	0.04	34.34	38.52	45.84	47.34	1.57	1.22	1.22
140.00	9.53	9.53	9.53	9.54	9.54	9.51	0.03	32.07	37.60	38.67	39.66	1.23	1.21	1.22
230.00	9.60	9.60	9.59	9.60	9.61	9.57	0.03	29.78	37.19	35.69	36.64	1.13	1.19	1.20
320.00	9.62	9.63	9.62	9.64	9.64	9.61	0.05	27.89	36.88	34.40	35.34	1.09	1.17	1.18
410.00	9.65	9.66	9.65	9.68	9.69	9.66	0.07	26.35	36.40	34.04	34.98	1.10	1.15	1.17
500.00	9.73	9.75	9.73	9.77	9.79	9.75	0.11	25.17	35.55	34.72	35.43	1.16	1.15	1.17
640.00	9.89	9.94	9.91	9.97	10.00	9.95	0.19	24.02	33.55	38.85	39.00	1.24	1.18	1.21
780.00	10.08	10.15	10.11	10.21	10.25	10.16	0.28	23.49	31.29	36.88	39.95	1.29	1.23	1.25
880.00	10.25	10.35	10.29	10.42	10.49	10.37	0.37	22.89	30.19	31.35	34.36	1.26	1.24	1.27
940.00	10.37	10.48	10.41	10.55	10.63	10.52	0.42	22.21	29.74	29.21	32.21	1.23	1.24	1.28
970.00	10.42	10.54	10.45	10.61	10.71	10.60	0.44	21.78	29.54	28.36	31.31	1.22	1.24	1.28
1000.00	10.51	10.63	10.55	10.71	10.83	10.71	0.49	21.33	29.44	27.66	30.65	1.23	1.24	1.28

ZFSC-8-4-75

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

ZFSC-8-4-75



electrical schematic



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