Coaxial

Power Splitter/Combiner

ZFSC-8-4-75+
ZFSC-8-4-75

8 Way-0° 75Ω 5 to 1000 MHz

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.

Maximum Ratings

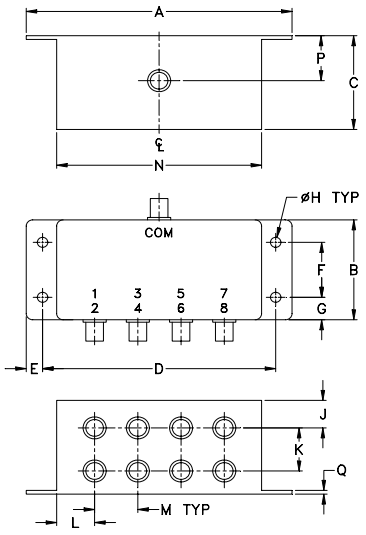
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.62W max.

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

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	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.
5-1000	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

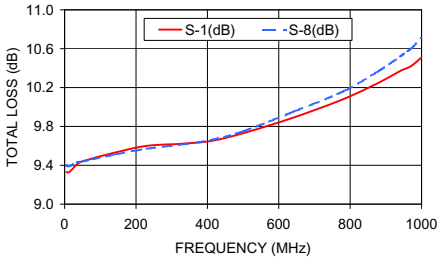
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U = upper range [f_U/2 to f_U]

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

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

ZFSC-8-4-75
TOTAL LOSS



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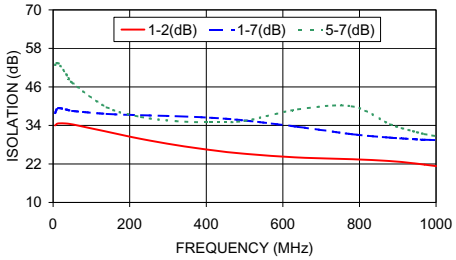
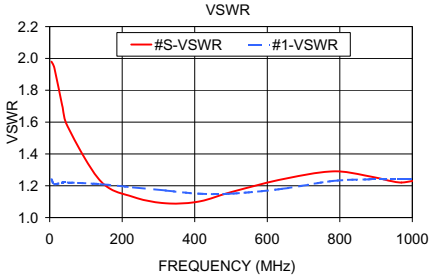
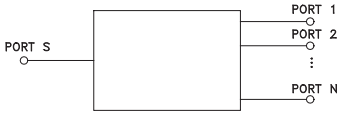
ISOLATION



ZFSC-8-4-75
VSWR



electrical schematic



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HY/TD/CP/AM
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