Coaxial

Power Splitter/Combiner

ZFSC-84-75

8 Way-0° 75Ω 1 to 300 MHz

BNC version shown

CASE STYLE: R29

Connectors	Model	Price	Qty.
BNC	ZFSC-84-75	$119.95	(1-9)

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

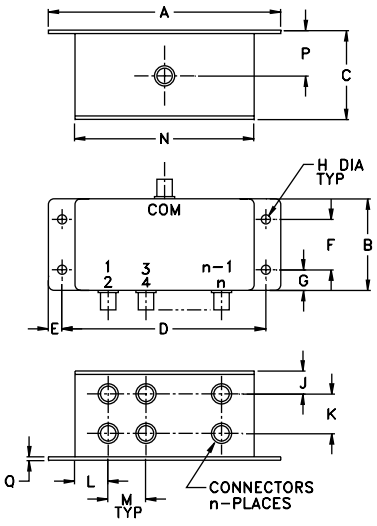
Features

- low insertion loss, 0.7 dB typ.
- high isolation, 30 dB typ.
- excellent amplitude unbalance, 0.2 dB typ.

Applications

- VHF
- radio communications
- signal processing

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
7.11	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	0.06	grams
0.16	17.53	14.73	16.76	79.50	20.32	1.52	300

Splitter Electrical Specifications

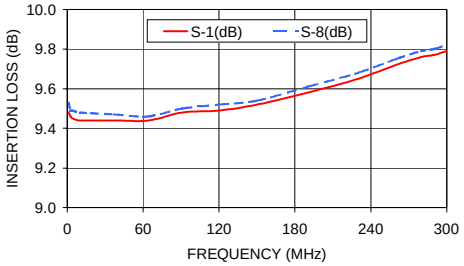
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 9 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L-f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
1-300	26	20	30	25	30	23	0.8	1.5	0.7	1.1	0.9	1.5	4.0	3.0	8.0	0.2	0.2	0.4

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)				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			
1.00	9.48	9.41	9.42	9.41	9.54	9.53	0.13	35.64	34.30	28.44	28.45	1.23	1.13	1.14
2.60	9.46	9.40	9.37	9.38	9.51	9.49	0.14	35.06	36.96	29.63	29.67	1.25	1.06	1.11
4.20	9.45	9.40	9.36	9.38	9.50	9.49	0.14	34.94	37.42	29.77	29.78	1.25	1.04	1.11
10.00	9.44	9.40	9.36	9.38	9.49	9.48	0.13	34.70	37.72	29.77	29.81	1.25	1.03	1.10
37.00	9.44	9.43	9.40	9.41	9.48	9.47	0.08	34.75	38.04	29.84	30.00	1.24	1.13	1.11
64.00	9.44	9.46	9.44	9.44	9.46	9.46	0.02	34.84	38.18	30.09	30.39	1.11	1.05	1.04
91.00	9.48	9.49	9.49	9.47	9.49	9.50	0.03	34.79	38.05	30.68	31.09	1.11	1.07	1.08
120.00	9.49	9.51	9.52	9.50	9.50	9.52	0.03	34.86	37.44	31.51	32.27	1.08	1.08	1.10
150.00	9.52	9.54	9.55	9.53	9.53	9.54	0.04	34.22	36.87	32.30	33.54	1.04	1.08	1.08
190.00	9.58	9.61	9.62	9.60	9.59	9.61	0.05	32.53	35.78	32.91	35.38	1.07	1.08	1.08
230.00	9.65	9.67	9.68	9.66	9.65	9.68	0.06	30.39	34.75	32.07	35.70	1.16	1.09	1.10
260.00	9.72	9.75	9.76	9.73	9.72	9.75	0.07	28.71	33.87	30.74	34.31	1.25	1.10	1.10
280.00	9.76	9.79	9.79	9.77	9.76	9.79	0.07	27.63	33.28	29.74	33.02	1.31	1.10	1.09
290.00	9.77	9.79	9.81	9.78	9.78	9.80	0.07	27.08	32.98	29.24	32.38	1.33	1.10	1.09
300.00	9.79	9.82	9.83	9.80	9.81	9.82	0.07	26.61	32.71	28.74	31.76	1.36	1.10	1.09

ZFSC-84-75
INSERTION LOSS



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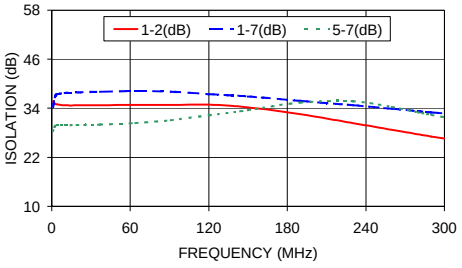
ISOLATION



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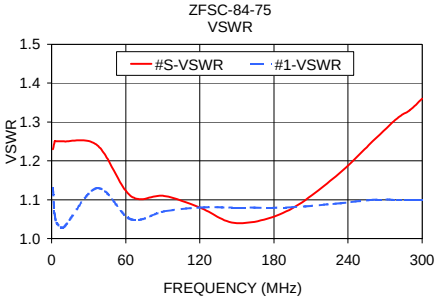
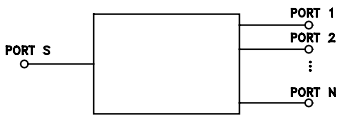
VSWR



electrical schematic



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