

Coaxial Power Splitter/Combiner

ZFSC-84-75+

8 Way-0° 75Ω 1 to 300 MHz

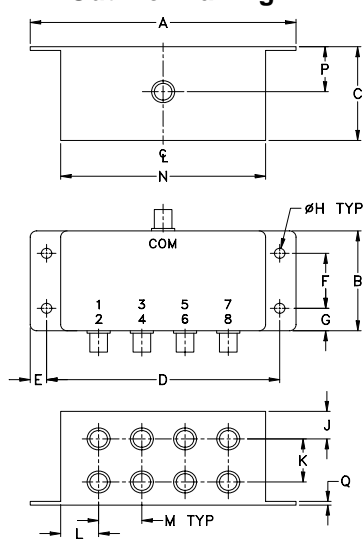
Maximum Ratings

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	J	K	L	M	N	P	Q	R	wt.
4.06	1.60	2.125	3.56	.25	.88	.36	.160	.40	.69	.58	.66	3.13	.80	.06	.33	grams
103.12	40.64	53.98	90.42	6.35	22.35	9.14	4.06	10.16	17.53	14.73	16.76	79.50	20.32	1.52	8.38	350

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



BNC version shown
CASE STYLE: R29

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

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications

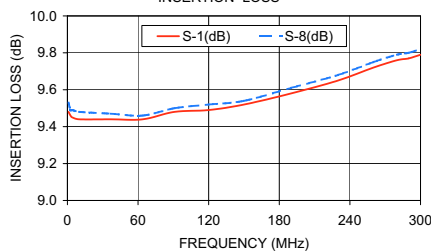
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 9.0 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)								
	L	M	U	L	M	U	L	M	U	L	M	U						
$f_L - f_U$	Typ.	Min.	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Min.	Max.	Max.	Max.	Max.	Max.	Max.						
1-300	26	20	30	25	30	23	0.8	1.5	0.7	1.1	0.9	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]

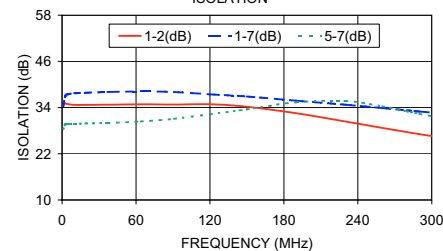
Typical Performance Data

Freq. (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

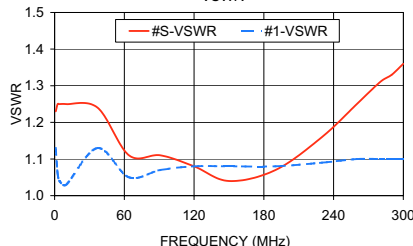
ZFSC-84-75+ INSERTION LOSS



ZFSC-84-75+ ISOLATION



ZFSC-84-75+ VSWR



electrical schematic



Mini-Circuits®
ISO 9001 ISO 14001 CERTIFIED

ALL NEW
minicircuits.com

