

Coaxial Power Splitter/Combiner

3 Way-0° 75Ω 1 to 1000 MHz

ZFSC-3-4-75+ ZFSC-3-4-75



Maximum Ratings

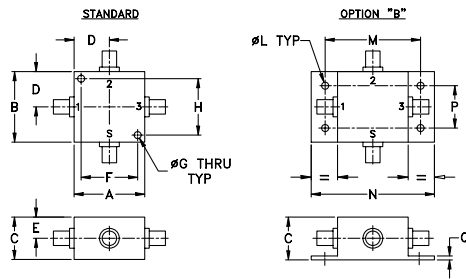
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.5W max.

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

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	3

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
1.25	1.25	.75	.63	.38	1.000	.125	1.000
31.75	31.75	19.05	16.00	9.65	25.40	3.18	25.40
J	K	L	M	N	P	Q	wt
--	--	.125	1.688	2.18	.75	.07	grams
--	--	3.18	42.88	55.37	19.05	1.78	75.0

For option B with N-Type connectors, dimension "C" increases to 0.94 inches.

Features

- very wideband, 1 to 1000 MHz
- low insertion loss, 0.4 dB typ.
- good isolation, 27 dB typ.
- rugged shielded case

Applications

- cellular
- instrumentation
- communication system

CASE STYLE: J17

Connectors	Model	Price	Qty.
BNC	ZFSC-3-4-75(+)	\$59.95	(1-9)
BRACKET	(OPTION "B")	\$2.50	(1+)

+ 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.

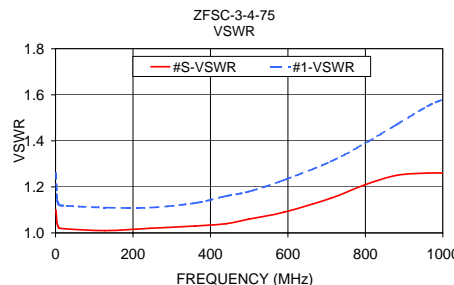
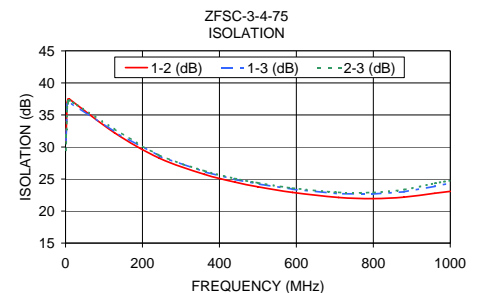
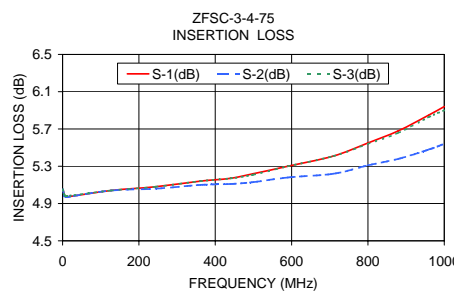
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 4.8 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)								
	L Typ.	M Min.	U Typ.	L Typ.	M Max.	U Typ.	L Max.	M Max.	U Max.	L Max.	M Max.	U Max.						
1-1000	34	22	27	17	23	15	0.2	0.5	0.4	1.2	1.2	2.0	3.0	6.0	10	0.5	0.7	0.9

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)			Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3
	S-1	S-2	S-3		1-2	1-3	2-3					
1.00	5.05	5.05	5.05	0.00	30.83	31.08	29.50	0.03	1.10	1.26	1.27	1.27
4.20	5.00	4.98	5.00	0.02	36.92	36.71	36.08	0.04	1.04	1.14	1.14	1.14
7.00	4.98	4.98	4.98	0.00	37.49	37.09	37.06	0.06	1.03	1.13	1.13	1.13
10.00	4.97	4.97	4.98	0.01	37.49	37.02	37.30	0.04	1.02	1.12	1.12	1.12
127.00	5.04	5.04	5.04	0.00	32.23	32.37	32.81	0.12	1.01	1.11	1.11	1.11
244.00	5.08	5.06	5.08	0.02	28.25	28.57	28.74	0.20	1.02	1.11	1.11	1.11
361.00	5.14	5.10	5.14	0.04	25.73	26.13	26.28	0.46	1.03	1.13	1.12	1.13
440.00	5.17	5.11	5.17	0.06	24.53	24.94	25.09	0.43	1.04	1.16	1.14	1.15
500.00	5.22	5.13	5.21	0.09	23.79	24.25	24.41	0.55	1.06	1.18	1.16	1.18
590.00	5.30	5.18	5.30	0.13	22.91	23.42	23.58	0.59	1.09	1.23	1.20	1.23
710.00	5.41	5.22	5.41	0.19	22.12	22.71	22.92	0.77	1.15	1.31	1.27	1.31
800.00	5.55	5.31	5.54	0.24	21.94	22.67	22.91	0.83	1.21	1.39	1.33	1.39
880.00	5.68	5.38	5.66	0.30	22.17	23.01	23.36	0.87	1.25	1.47	1.40	1.46
960.00	5.85	5.48	5.83	0.37	22.78	23.88	24.33	0.90	1.26	1.55	1.46	1.54
1000.00	5.94	5.54	5.90	0.40	23.07	24.36	24.75	0.84	1.26	1.58	1.49	1.58



electrical schematic



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