

Coaxial Power Splitter/Combiner

ZFSC-3-4-75+

3 Way-0° 75Ω 1 to 1000 MHz

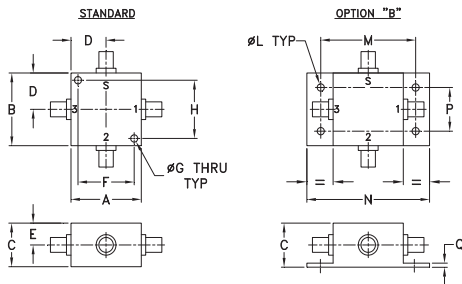
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.5W 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	J	K	L	M	N	P	Q	wt
1.25	1.25	.75	.63	.38	1.000	.125	1.000	--	--	.125	1.688	2.18	.75	.07	grams
31.75	31.75	19.05	16.00	9.65	25.40	3.18	25.40	--	--	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
BNC ZFSC-3-4-75+
BRACKET (OPTION "B")

+RoHS Compliant

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		M		U		L		M		U		L		M		U	
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	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]

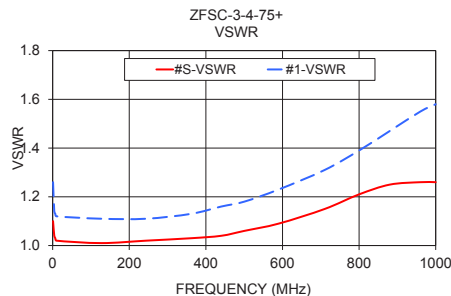
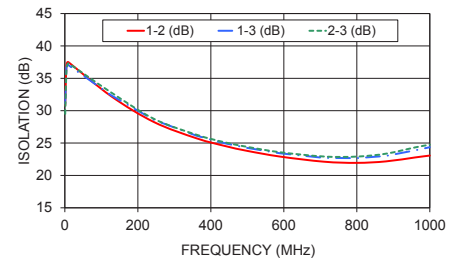
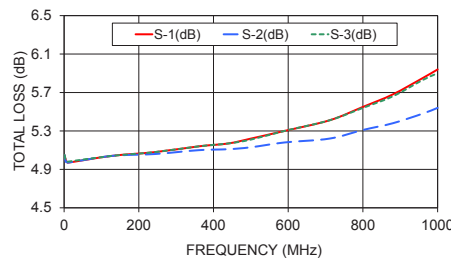
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (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

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TOTAL LOSS

1. Total Loss = Insertion Loss + 4.8dB splitter loss.

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ISOLATION



electrical schematic



Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
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