

Power Splitter/Combiner

ZFSC-2-6-75

2 Way-0° 75Ω 0.004 to 60 MHz

Maximum Ratings

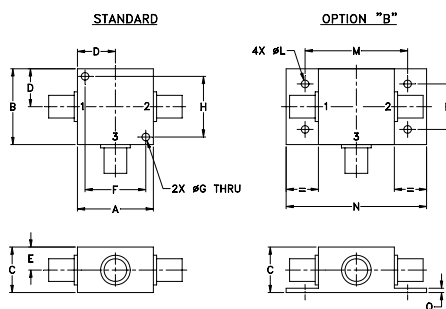
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.*
Internal Dissipation	0.125W max.

* At low range frequency band (f_L to $10 f_L$), linearly derate maximum input power by 13 dB typ.
Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	3
PORT 1	1
PORT 2	2

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	1.00	.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	70.0

Features

- low insertion loss, 0.4 dB typ.
- high isolation, 35 dB typ.
- rugged shielded case

Applications

- HF/VHF
- amateur radio
- instrumentation



BNC version shown
CASE STYLE: K18

Connectors	Model	Price	Qty.
BNC	ZFSC-2-6-75	\$53.95	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)

Electrical Specifications

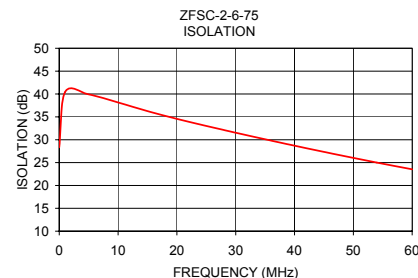
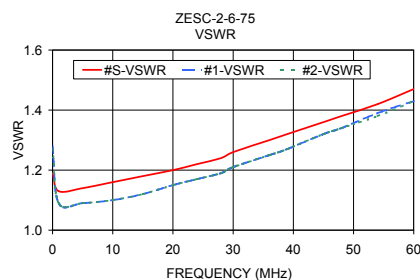
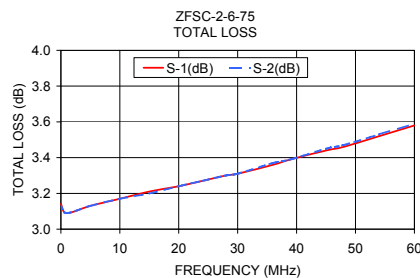
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 3.0 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L	M	U	L	M	U	L	M	U	L	M	U
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.
0.004-60	30	20	35	20	25	20	0.5	0.8	0.4	0.8	0.7	1.0

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)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
0.004	3.14	3.13	0.01	28.34	0.09	1.19	1.28	1.27
1.000	3.09	3.09	0.00	40.45	0.00	1.13	1.09	1.09
5.000	3.13	3.13	0.00	39.93	0.02	1.14	1.09	1.09
10.000	3.17	3.17	0.00	38.14	0.04	1.16	1.10	1.10
15.000	3.21	3.20	0.00	36.25	0.05	1.18	1.12	1.12
20.000	3.24	3.24	0.00	34.56	0.05	1.20	1.15	1.15
24.000	3.27	3.27	0.00	33.32	0.05	1.22	1.17	1.17
28.000	3.30	3.30	0.00	32.12	0.06	1.24	1.19	1.19
30.000	3.31	3.31	0.00	31.53	0.05	1.26	1.21	1.21
36.000	3.36	3.37	0.00	29.82	0.06	1.30	1.25	1.25
39.000	3.39	3.39	0.00	28.97	0.06	1.32	1.27	1.27
45.000	3.44	3.45	0.01	27.34	0.07	1.36	1.32	1.32
48.000	3.46	3.47	0.01	26.55	0.07	1.38	1.34	1.34
54.000	3.52	3.53	0.01	25.01	0.08	1.42	1.39	1.38
60.000	3.58	3.59	0.02	23.54	0.09	1.47	1.43	1.43

1. Total Loss = Insertion Loss + 3dB splitter loss.



electrical schematic



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