

Coaxial

Power Splitter/Combiner

2 Way-0° 50Ω 5 to 500 MHz

ZFSC-2-1+



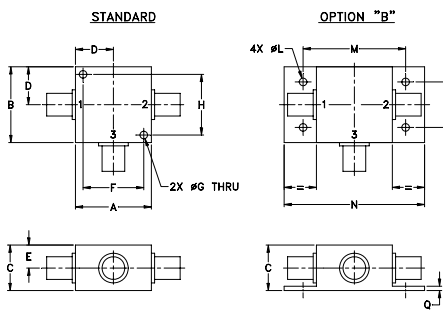
Maximum Ratings

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.
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

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

Features

- wideband, 5 to 500 MHz
- low insertion loss, 0.3 dB typ.
- excellent isolation, 28 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- good VSWR, 1.2:1 typ.
- rugged shielded case

Applications

- VHF/UHF
- instrumentation
- communication systems

BNC version shown
CASE STYLE: K18

Connectors	Model	Price	Qty.
BNC	ZFSC-2-1+	\$44.95	(1-9)
SMA	ZFSC-2-1-S+	\$49.95	(1-9)
N-TYPE	ZFSC-2-1-N+	\$49.95	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)

+ 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

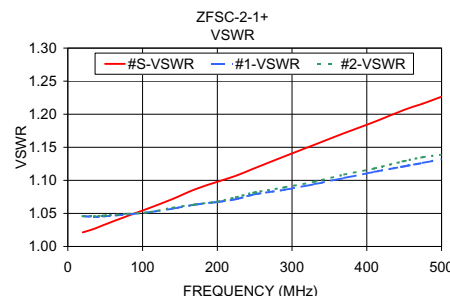
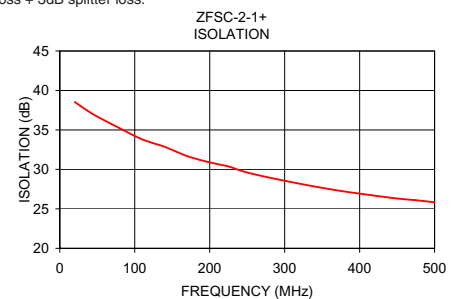
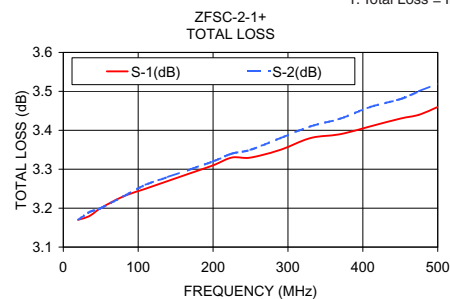
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L		M		U	
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
5-500	30	25	28	20	25	20	0.2	0.5	0.3	0.6	0.6	0.8	2	4	4	0.15	0.15	0.30

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						
20	3.17	3.17	0.00	38.54	0.08	1.02	1.05	1.05
35	3.18	3.19	0.00	37.55	0.05	1.03	1.04	1.05
80	3.23	3.23	0.00	35.20	0.01	1.05	1.05	1.05
140	3.27	3.28	0.01	32.86	0.01	1.07	1.06	1.06
170	3.29	3.30	0.01	31.68	0.03	1.09	1.06	1.06
200	3.31	3.32	0.01	30.89	0.05	1.10	1.07	1.07
225	3.33	3.34	0.02	30.37	0.09	1.11	1.07	1.07
250	3.33	3.35	0.02	29.60	0.08	1.12	1.08	1.08
290	3.35	3.38	0.03	28.75	0.13	1.14	1.09	1.09
330	3.38	3.41	0.03	28.01	0.17	1.15	1.09	1.10
370	3.39	3.43	0.04	27.35	0.21	1.17	1.10	1.11
410	3.41	3.46	0.05	26.80	0.25	1.19	1.11	1.12
450	3.43	3.48	0.05	26.31	0.30	1.21	1.12	1.13
475	3.44	3.50	0.06	26.09	0.32	1.22	1.13	1.14
500	3.46	3.52	0.06	25.83	0.34	1.23	1.13	1.14

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



electrical schematic



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