

Coaxial

Power Splitter/Combiner

2 Way-0° 50Ω 1 to 750 MHz

ZFSC-2-1W+



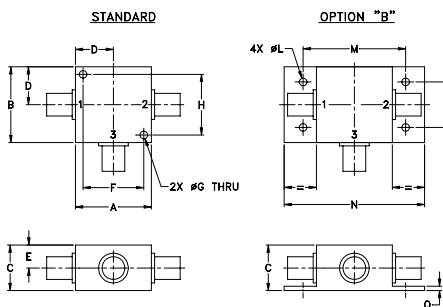
Maximum Ratings

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.

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
1.25	1.25	.75	.63	.38	1.00	.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	70.0

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

Features

- low insertion loss, 0.4 dB typ.
- high isolation, 28 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.5 deg. typ.
- very good return loss, VSWR, 1.15:1 typ.
- rugged shielded case

Applications

- VHF/UHF
- federal & defense communication

BNC version shown
CASE STYLE: K18

Connectors	Model	Price	Qty.
BNC	ZFSC-2-1W+	\$48.95	(1-9)
SMA	ZFSC-2-1W-S+	\$53.95	(1-9)
N-TYPE	ZFSC-2-1W-N+	\$53.95	(1-9)
BRACKET (OPTION "B")		\$2.50	(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.

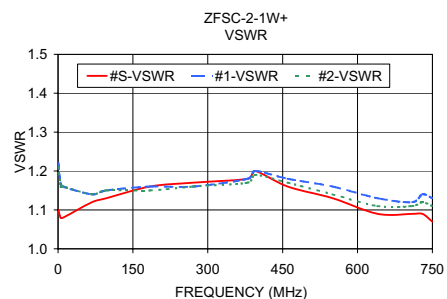
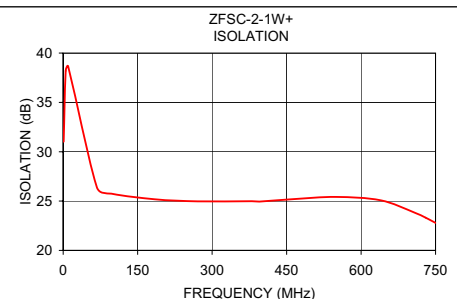
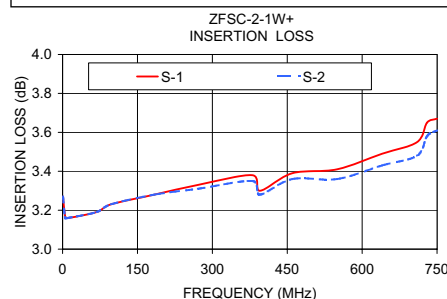
Electrical Specifications

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	L	M	U
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f _l -f _u	30	20	28	20	25	20	0.2	0.5	0.4	0.8	0.8	1.0	2	4	4	0.15	0.15	0.30

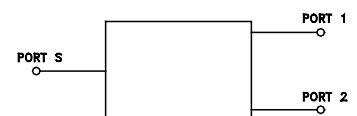
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U = upper range [f_U/2 to f_U]

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
1.00	3.27	3.27	0.00	31.01	0.01	1.10	1.22	1.21
5.00	3.17	3.16	0.01	38.19	0.02	1.08	1.17	1.16
10.00	3.16	3.16	0.00	38.65	0.14	1.08	1.16	1.16
68.00	3.19	3.19	0.01	26.38	0.07	1.12	1.14	1.14
97.00	3.23	3.23	0.00	25.75	0.09	1.13	1.15	1.15
184.00	3.28	3.28	0.01	25.18	0.09	1.16	1.16	1.15
271.00	3.33	3.31	0.02	24.97	0.20	1.17	1.16	1.16
380.00	3.38	3.35	0.03	24.99	0.24	1.18	1.18	1.17
395.00	3.30	3.28	0.02	24.95	0.21	1.20	1.20	1.19
460.00	3.39	3.36	0.03	25.18	0.22	1.16	1.18	1.17
550.00	3.41	3.36	0.05	25.42	0.31	1.13	1.16	1.14
640.00	3.49	3.43	0.06	25.07	0.36	1.09	1.13	1.11
710.00	3.55	3.48	0.07	23.78	0.48	1.09	1.12	1.11
730.00	3.65	3.58	0.07	23.32	0.59	1.09	1.14	1.12
750.00	3.67	3.61	0.07	22.79	0.58	1.07	1.13	1.11



electrical schematic



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