

Coaxial

Power Splitter/Combiner

ZFSC-2-4+

2 Way-0° 50Ω 0.2 to 1000 MHz

Maximum Ratings

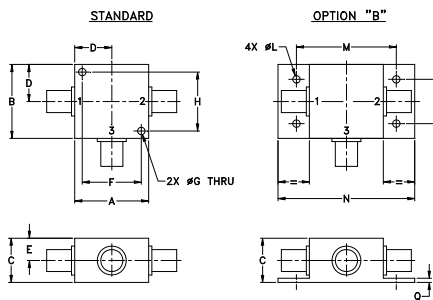
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

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
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

- wideband, 0.2 to 1000 MHz
- low insertion loss, 0.5 dB typ.
- good isolation, 25 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.5 deg. typ.
- rugged shielded case

Applications

- cellular
- VHF/UHF
- instrumentation

BNC version shown
CASE STYLE: K18

Connectors	Model
BNC	ZFSC-2-4+
SMA	ZFSC-2-4-S+
N-TYPE	ZFSC-2-4-N+
BRACKET (OPTION "B")	

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications

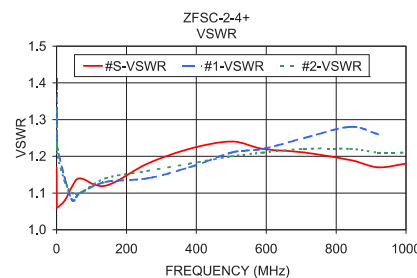
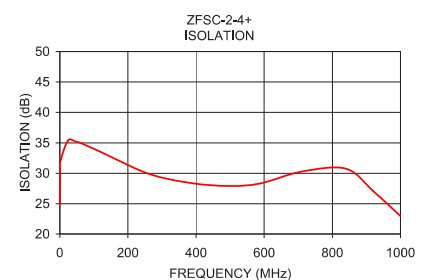
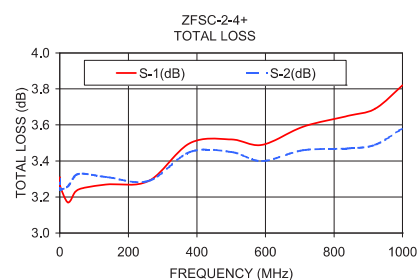
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f _L -f _U	20	15	25	20	23	18	0.2	0.8	0.5	1.0	0.9	1.2	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' (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
0.20	3.31	3.30	0.02	24.83	0.10	1.17	1.41	1.39
0.70	3.29	3.24	0.05	30.54	0.20	1.07	1.25	1.23
1.00	3.26	3.24	0.03	31.83	0.36	1.06	1.23	1.21
24.00	3.17	3.26	0.09	35.39	0.03	1.08	1.14	1.13
46.00	3.23	3.32	0.08	35.23	0.09	1.12	1.08	1.10
68.00	3.25	3.33	0.08	34.84	0.18	1.14	1.10	1.10
140.00	3.27	3.31	0.04	32.99	0.27	1.12	1.13	1.14
260.00	3.29	3.29	0.01	29.95	0.36	1.18	1.14	1.16
380.00	3.50	3.45	0.04	28.42	0.25	1.22	1.17	1.18
500.00	3.52	3.45	0.07	27.91	0.21	1.24	1.21	1.20
590.00	3.49	3.40	0.09	28.34	0.17	1.22	1.22	1.21
710.00	3.59	3.46	0.13	30.28	0.34	1.21	1.25	1.22
840.00	3.65	3.47	0.18	30.75	0.49	1.19	1.28	1.22
920.00	3.69	3.49	0.20	27.07	0.65	1.17	1.26	1.21
1000.00	3.82	3.58	0.24	22.95	0.81	1.18	1.27	1.21

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



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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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