

Coaxial

Power Splitter/Combiner

2 Way-0° 75Ω 0.25 to 300 MHz

ZFSC-2-1-75+



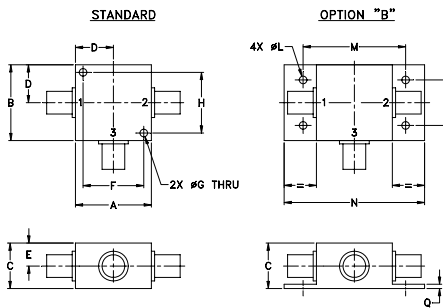
Maximum Ratings

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

Features

- low insertion loss, 0.4 dB typ.
- high isolation, 30 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.2 deg. typ.
- very good return loss, VSWR, 1.15:1 typ.
- rugged shielded case

Applications

- HF/VHF
- amateur fan radio
- communication systems

CASE STYLE: K18

Connectors Model
BNC ZFSC-2-1-75+
BRACKET (OPTION "B")

+RoHS Compliant

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

Electrical Specifications

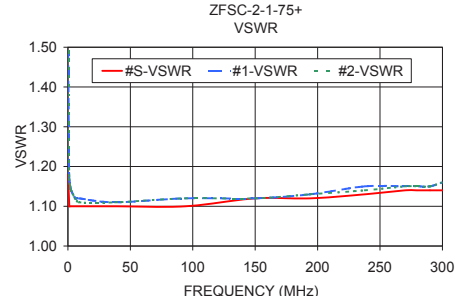
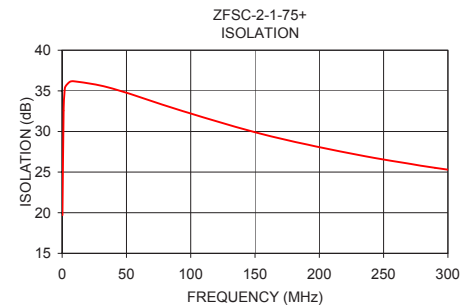
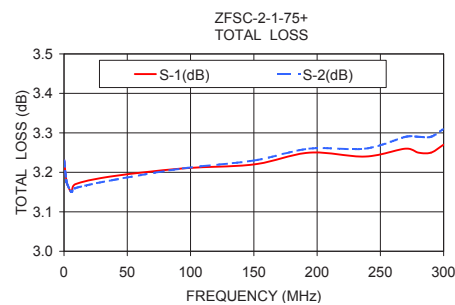
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 3.0 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)								
	L	M	U	L	M	U	L	M	U	L	M	U						
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.						
f _i -f _u	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.						
0.25-300	20	15	30	25	25	20	0.4	0.75	0.4	0.75	0.4	1.0	2	3	5	0.15	0.2	0.3

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						
0.25	3.23	3.23	0.00	19.70	0.01	1.18	1.49	1.49
1.10	3.20	3.20	0.00	32.56	0.02	1.10	1.17	1.17
1.80	3.18	3.18	0.00	34.82	0.02	1.10	1.15	1.15
2.50	3.17	3.17	0.01	35.51	0.02	1.10	1.14	1.14
6.00	3.15	3.15	0.00	36.11	0.00	1.10	1.12	1.12
9.00	3.17	3.16	0.01	36.18	0.08	1.10	1.12	1.11
38.00	3.19	3.18	0.01	35.33	0.06	1.10	1.11	1.11
94.00	3.21	3.21	0.01	32.50	0.01	1.10	1.12	1.12
150.00	3.22	3.23	0.01	29.91	0.12	1.12	1.12	1.12
194.00	3.25	3.26	0.01	28.27	0.12	1.12	1.13	1.13
238.00	3.24	3.26	0.02	26.88	0.18	1.13	1.15	1.14
270.00	3.26	3.29	0.02	26.03	0.10	1.14	1.15	1.15
280.00	3.25	3.29	0.03	25.76	0.07	1.14	1.15	1.15
290.00	3.25	3.29	0.04	25.53	0.14	1.14	1.15	1.15
300.00	3.27	3.31	0.04	25.30	0.12	1.14	1.16	1.16

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



electrical schematic



Notes

- A. 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.
 B. 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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