

Coaxial

Power Splitter/Combiner

2 Way-0° 75Ω 5 to 600 MHz

ZFSC-2-1W-75+



BNC version shown

CASE STYLE: K18

Connectors Model

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

+RoHS Compliant

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

Maximum Ratings

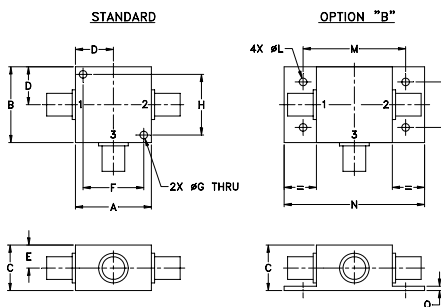
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

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

Features

- wideband, 5 to 600 MHz
- low insertion loss, 0.27 dB typ.
- very high isolation, 45 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.2 deg. typ.
- good VSWR, 1.15:1 typ.
- rugged shielded case

Applications

- VHF/UHF
- catv
- instrumentation

Electrical Specifications

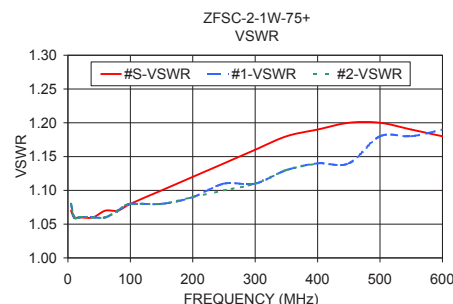
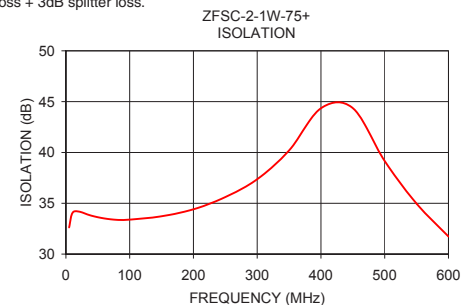
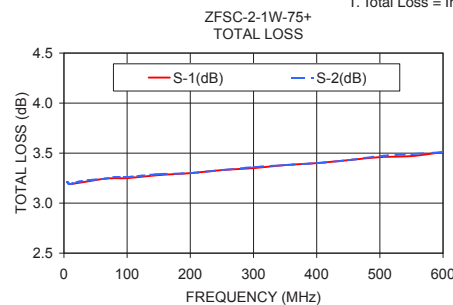
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 3.0 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L	M	U	L	M	U	L	M	U	L	M	U
f_L - f_U	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.
5-600	44	26	45	30	31	20	0.22	0.6	0.27	0.7	0.46	0.9

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						
5	3.21	3.21	0.01	32.62	0.03	1.07	1.08	1.08
10	3.19	3.19	0.00	34.02	0.03	1.06	1.06	1.06
20	3.20	3.21	0.01	34.19	0.02	1.06	1.06	1.06
60	3.24	3.24	0.00	33.51	0.03	1.07	1.06	1.06
100	3.25	3.26	0.01	33.39	0.03	1.08	1.08	1.08
150	3.28	3.29	0.01	33.72	0.05	1.10	1.08	1.08
200	3.30	3.30	0.01	34.41	0.04	1.12	1.09	1.09
250	3.33	3.33	0.01	35.61	0.06	1.14	1.11	1.10
300	3.35	3.36	0.02	37.37	0.07	1.16	1.11	1.11
350	3.38	3.38	0.02	40.20	0.09	1.18	1.13	1.13
400	3.40	3.40	0.02	44.35	0.11	1.19	1.14	1.14
450	3.43	3.43	0.03	44.36	0.13	1.20	1.14	1.16
500	3.46	3.47	0.05	39.15	0.15	1.20	1.18	1.17
550	3.47	3.49	0.06	34.96	0.14	1.19	1.18	1.18
600	3.51	3.51	0.06	31.73	0.19	1.18	1.19	1.20

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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