

Coaxial

Power Splitter/Combiner

ZFSC-2-1W-75+

2 Way-0° 75Ω 5 to 600 MHz



Generic photo used for illustration purposes only
CASE STYLE: K18

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

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

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

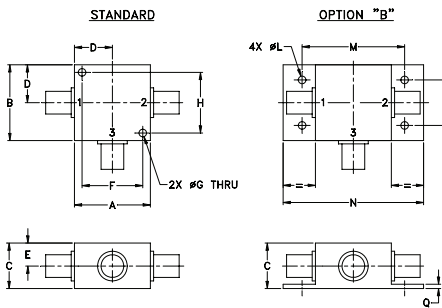
+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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																			
5-600	44	26	45	30	31	20	0.22	0.6	0.27	0.7	0.46	0.9	1	2	3	0.2	0.3	0.4	

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]

Outline Drawing



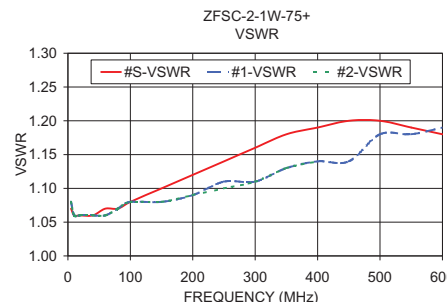
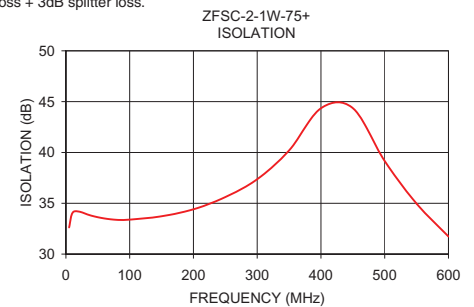
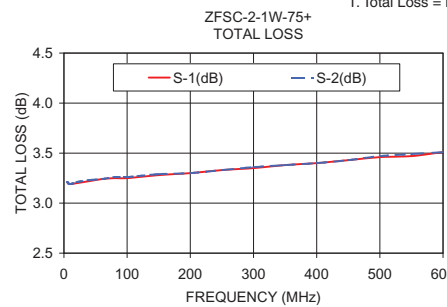
Outline Dimensions (inch/mm)

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		

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

- 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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