

# Coaxial Power Splitter/Combiner

## ZFSC-2-5+ ZFSC-2-5

2 Way-0° 50Ω 10 to 1500 MHz

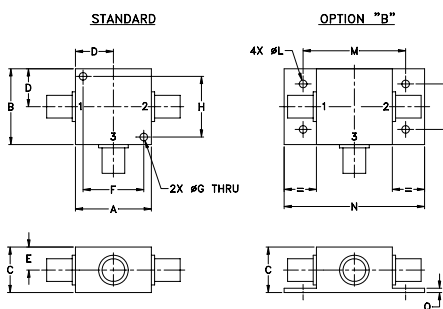
### Maximum Ratings

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.

### 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, 10 to 1500 MHz
- high insertion loss, 0.5 dB typ.
- high isolation, 30 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.5 deg. typ.
- rugged shielded case

### Applications

- cellular
- satellite distribution
- VHF/UHF



BNC version shown  
CASE STYLE: K18

Connectors	Model	Price	Qty.
BNC	ZFSC-2-5(+)	\$59.95	(1-9)
SMA	ZFSC-2-5-S(+)	\$64.95	(1-9)
N-TYPE	ZFSC-2-5-N(+)	\$64.95	(1-9)
BRACKET (OPTION "B")		\$2.50	(1+)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

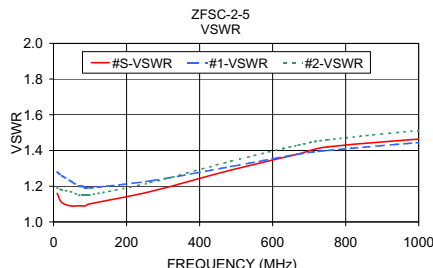
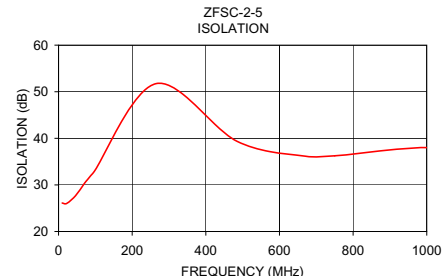
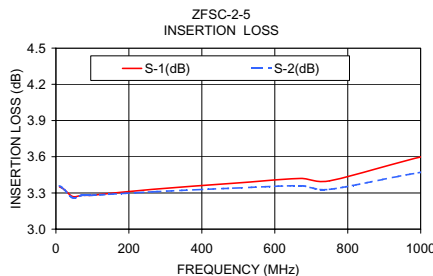
### Electrical Specifications

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						
10-1500	25	15	30	20	25	18	0.25	0.6	0.5	1.0	0.8	1.5	2	3	4	0.15	0.20	0.50

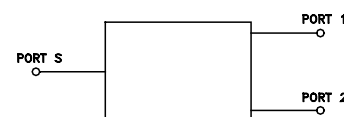
L = low range [ $f_L$  to 10  $f_L$ ] M = mid range [ $10 f_L$  to  $f_U/2$ ] U = upper range [ $f_U/2$  to  $f_U$ ]

### 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						
10.00	3.35	3.36	0.00	26.11	0.04	1.16	1.28	1.19
22.00	3.33	3.33	0.00	26.02	0.02	1.11	1.26	1.18
46.00	3.27	3.26	0.01	27.66	0.01	1.09	1.23	1.17
70.00	3.28	3.28	0.00	30.29	0.07	1.09	1.20	1.15
79.00	3.28	3.28	0.01	31.18	0.10	1.09	1.20	1.15
88.00	3.28	3.28	0.00	32.04	0.02	1.09	1.19	1.15
97.00	3.28	3.28	0.00	32.89	0.08	1.10	1.19	1.15
265.00	3.33	3.31	0.02	51.74	0.16	1.17	1.23	1.22
485.00	3.38	3.34	0.03	39.34	0.22	1.29	1.31	1.34
670.00	3.42	3.36	0.06	36.17	0.13	1.38	1.38	1.43
750.00	3.40	3.33	0.07	36.25	0.21	1.42	1.40	1.46
1050.00	3.63	3.49	0.14	37.77	0.23	1.47	1.45	1.52
1200.00	3.62	3.43	0.19	30.23	0.15	1.47	1.44	1.52
1350.00	3.92	3.67	0.25	24.72	0.09	1.54	1.40	1.51
1500.00	4.12	3.83	0.29	20.60	0.48	1.82	1.33	1.49



### electrical schematic



**Mini-Circuits®**  
ISO 9001 ISO 14001 CERTIFIED

ALL NEW  
minicircuits.com

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: [www.minicircuits.com](http://www.minicircuits.com)

RF/IF MICROWAVE COMPONENTS

REV. A  
M108014  
ZFSC-2-5  
HY/TD/CP/AM  
080220