

# Coaxial Power Splitter/Combiner

2 Way-0° 50Ω 0.2 to 1000 MHz

ZFSC-2-4+  
ZFSC-2-4



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 in accordance with EU Directive (2002/95/EC)

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.

## Coaxial Connections

SUM PORT	3
PORT 1	1
PORT 2	2

## 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

## Electrical Specifications

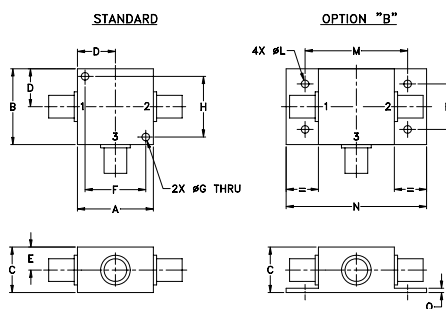
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 3.0 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)								
	L	M	U	L	M	U	L	M	U	L	M	U						
$f_L$ - $f_U$	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.						
0.2-1000	20	15	25	20	23	18	0.2	0.8	0.5	1.0	0.9	1.2	2	4	4	0.15	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)	Insertion 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

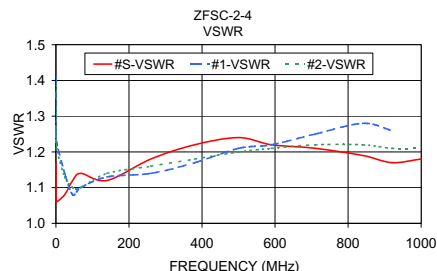
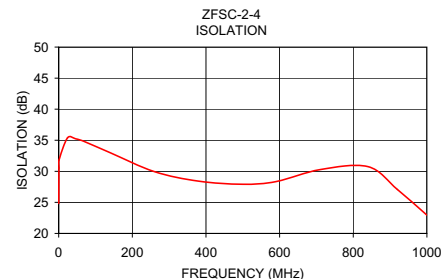
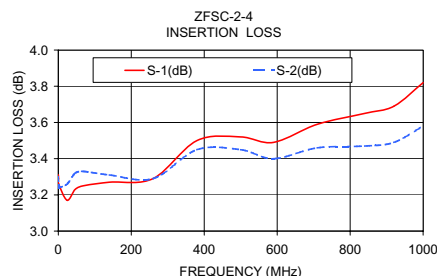
## Outline Drawing



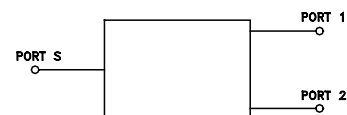
## Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	wt
1.25	1.25	.75	.63	.38	1.00	.125	1.000	--	--	.125	1.688	2.18	.75	.07	grams
31.75	31.75	19.05	16.00	9.65	25.40	3.18	25.40	--	--	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.



## electrical schematic



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