

# Power Splitter/Combiner

## ZFSC-4-3+

4 Way-0° 50Ω 10 to 300 MHz



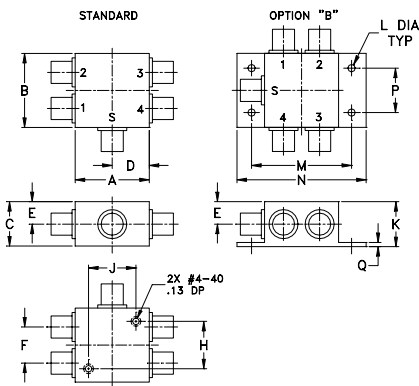
### Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.250W max.

### Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4

### Outline Drawing



### Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
1.25	1.25	.75	.63	.38	.61	--	.80
31.75	31.75	19.05	16.00	9.65	15.49	--	20.32
J	K	L	M	N	P	Q	wt
.80	.76	.125	1.688	2.18	.75	.07	grams
20.32	19.30	3.18	42.88	55.37	19.05	1.78	85.0

### Features

- wideband, 10 to 300 MHz
- high isolation, 38 dB typ.
- rugged shielded case

### Applications

- VHF
- radio communication

BNC version shown  
CASE STYLE: G15

Connectors	Model	Price	Qty.
BNC	ZFSC-4-3-BNC+	\$78.95	(1-9)
SMA	ZFSC-4-3-S+	\$78.95	(1-9)
BRACKET (OPTION "B")		\$2.50	(1+)

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

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

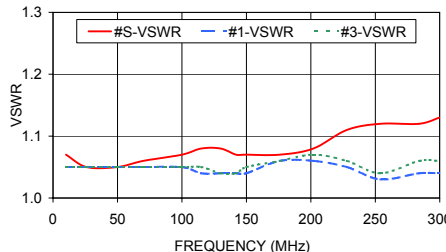
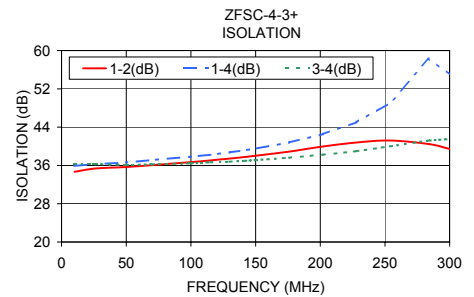
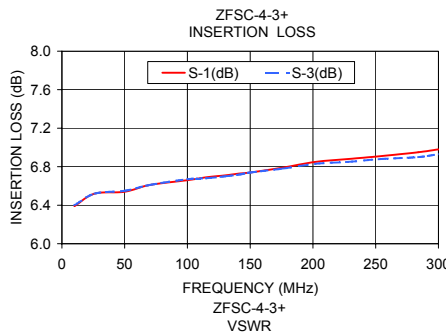
### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 6.0 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.
$f_L$ - $f_U$																		
10-300	32	28	38	30	38	30	0.5	0.8	0.6	0.9	0.9	1.2	4	6	8	0.1	0.1	0.2

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

Freq. (MHz)	Insertion Loss (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	1-4	3-4						
10.00	6.39	6.41	6.40	6.39	0.02	34.67	35.91	36.23	0.09	1.07	1.05	1.05	1.05	1.05
26.00	6.52	6.54	6.52	6.53	0.02	35.36	36.25	36.26	0.18	1.05	1.05	1.05	1.05	1.05
50.00	6.54	6.55	6.55	6.55	0.01	35.67	36.63	36.12	0.27	1.05	1.05	1.05	1.05	1.05
70.00	6.61	6.62	6.61	6.61	0.01	36.06	37.13	36.24	0.43	1.06	1.05	1.05	1.05	1.05
100.00	6.66	6.67	6.67	6.67	0.01	36.69	37.84	36.46	0.67	1.07	1.05	1.05	1.05	1.05
115.00	6.69	6.69	6.68	6.69	0.01	37.05	38.23	36.65	0.75	1.08	1.04	1.04	1.05	1.05
130.00	6.71	6.71	6.70	6.72	0.01	37.44	38.74	36.80	0.90	1.08	1.04	1.04	1.04	1.04
142.00	6.73	6.73	6.72	6.74	0.01	37.78	39.18	36.97	0.94	1.07	1.04	1.04	1.04	1.04
150.00	6.74	6.73	6.74	6.75	0.02	38.02	39.51	37.12	0.98	1.07	1.04	1.04	1.05	1.05
176.00	6.79	6.79	6.78	6.80	0.02	38.89	40.81	37.62	1.14	1.07	1.06	1.06	1.06	1.06
202.00	6.85	6.83	6.83	6.86	0.03	39.95	42.54	38.25	1.25	1.08	1.06	1.07	1.07	1.07
228.00	6.88	6.85	6.85	6.89	0.04	40.79	45.03	38.99	1.42	1.11	1.05	1.05	1.06	1.06
254.00	6.91	6.88	6.88	6.92	0.04	41.21	49.09	40.00	1.62	1.12	1.03	1.04	1.04	1.04
284.00	6.95	6.92	6.90	6.96	0.06	40.46	58.31	41.18	1.83	1.12	1.04	1.05	1.06	1.05
300.00	6.98	6.93	6.93	7.00	0.07	39.45	55.01	41.49	1.79	1.13	1.04	1.06	1.06	1.05



### 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)

REV. A  
M113397  
ZFSC-4-3+  
HY/TD/CP/AM  
080225