

# Coaxial Power Splitter/Combiner

16 Way-0° 50Ω 1 to 30 MHz

ZFSC-16-3+  
ZFSC-16-3



BNC version shown  
CASE STYLE: R30

Connectors	Model	Price	Qty.
BNC	ZFSC-16-3(+)	\$172.95	(1-9)
SMA	ZFSC-16-3-S	\$217.95	(1-9)

+ 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

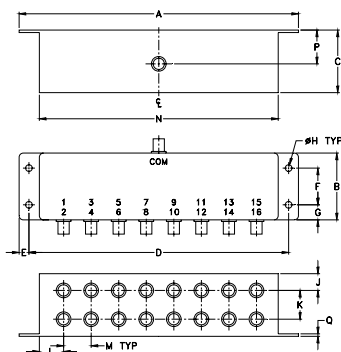
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.87W max.

Permanent damage may occur if any of these limits are exceeded.

## Coaxial Connections

SUM PORT	S(COM)
PORT 1,2,3,.....,16	1,2,3,.....,16

## Outline Drawing



## Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
6.69	1.60	1.50	6.22	.24	.88	.36	.160
169.93	40.64	38.10	157.99	6.10	22.35	9.14	4.06
J	K	L	M	N	P	Q	wt.
.40	.69	.55	.66	5.72	.81	.06	grams
10.16	17.53	13.97	16.76	145.29	20.57	1.52	320

## Features

- high isolation, 45 dB typ.
- rugged shielded case

## Applications

- HF/VHF
- test set-ups
- instrumentation

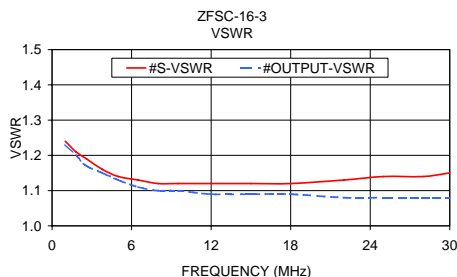
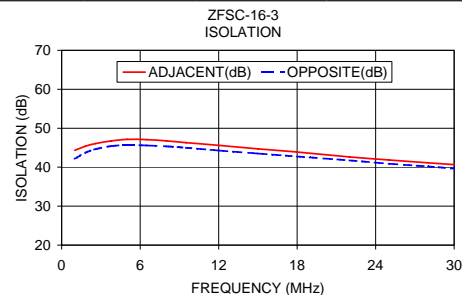
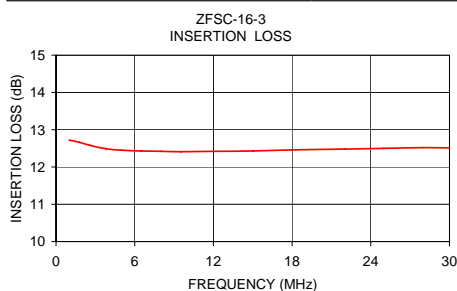
## Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 12 dB		PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)
	Typ.	Min.	Typ.	Max.	L	M	U	
$f_L$ - $f_U$					Max.	Max.	Max.	Max.
1-30	45	28	0.5	0.9	1	2	3	0.1

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)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR OUTPUT
			Adjacent	Opposite			
	<b>S-1</b>		<b>Adjacent</b>	<b>Opposite</b>			
1.00	12.72	0.02	44.33	42.15	0.40	1.24	1.23
1.80	12.66	0.03	45.35	43.71	0.24	1.21	1.20
2.60	12.58	0.02	46.07	44.65	0.15	1.19	1.17
3.80	12.49	0.02	46.75	45.42	0.14	1.16	1.15
5.00	12.45	0.02	47.14	45.67	0.13	1.14	1.13
6.50	12.43	0.03	47.08	45.58	0.16	1.13	1.11
8.00	12.42	0.02	46.77	45.36	0.16	1.12	1.10
9.50	12.41	0.02	46.29	45.01	0.21	1.12	1.10
12.00	12.42	0.03	45.60	44.29	0.18	1.12	1.09
15.00	12.43	0.02	44.71	43.52	0.20	1.12	1.09
18.00	12.46	0.02	43.88	42.76	0.23	1.12	1.09
22.00	12.48	0.02	42.62	41.74	0.29	1.13	1.08
25.00	12.50	0.02	41.86	40.92	0.35	1.14	1.08
28.00	12.52	0.02	41.12	40.19	0.32	1.14	1.08
30.00	12.51	0.03	40.65	39.65	0.35	1.15	1.08



## electrical schematic



**Mini-Circuits®**  
ISO 9001 ISO 14001 AS 9100 CERTIFIED  
The Design Engineers Search Engine Provides ACTUAL Data Instantly at [minicircuits.com](http://minicircuits.com)  
IFIRF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp).

REV. A  
M120885  
ZFSC-16-3  
HY/TD/CP  
090827