

Coaxial

Power Splitter/Combiner

ZFSC-10-1+

10 Way-0° 50Ω 0.5 to 100 MHz



BNC version shown
CASE STYLE: RR93

Connectors	Model	Price	Qty.
BNC	ZFSC-10-1+	\$119.95	(1-9)

+ 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.

Maximum Ratings

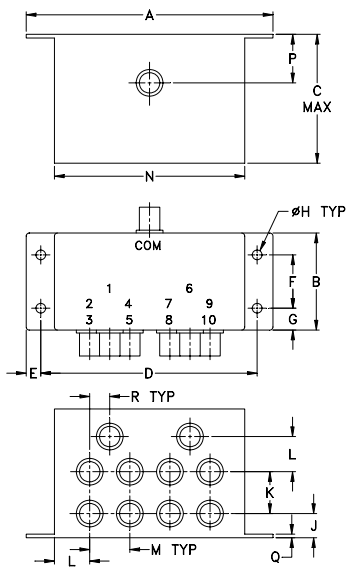
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.87W max.

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

Coaxial Connections

SUM PORT	S
PORT 1,2,3,.....,10	1,2,3,.....,10

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
4.06	1.60	2.125	3.56	.25	.88	.36	.160
103.12	40.64	53.98	90.42	6.35	22.35	9.14	4.06
J	K	L	M	N	P	Q	R
.40	.69	.58	.66	3.13	.80	.06	.33
10.16	17.53	14.73	16.76	79.50	20.32	1.52	8.38
							wt.
							350

Features

- low insertion loss, 0.4 dB typ.
- high isolation, 30 dB typ.
- rugged shielded case

Applications

- VF/VHF
- radio communication
- instrumentation

Electrical Specifications

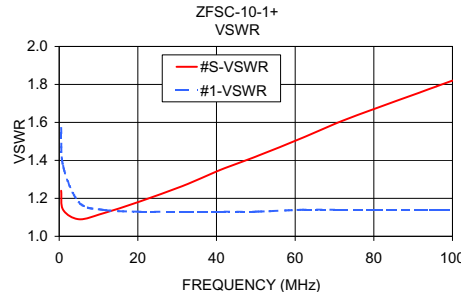
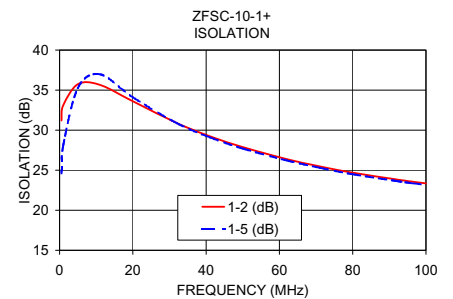
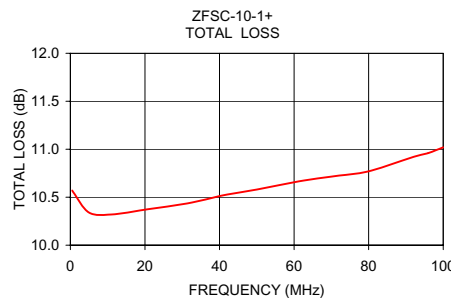
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 10 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)				
	L	M	U	L	M	U	L	M	U	L	M	U		
f_L - f_U	Typ.	Min.	Typ. Min.	Typ. Min.	Typ. Max.	Typ. Max.	Typ. Max.	Max.	Max.	Max.	Max.	Max.	Max.	
0.5-100	28	20	30	24	27	20	0.5	0.8	1.0	0.8	1.5	3	6	10

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)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 1
			1-2	1-5			
0.50	10.57	0.05	31.20	24.61	0.10	1.24	1.57
1.00	10.54	0.04	33.11	28.09	0.11	1.14	1.37
5.00	10.34	0.04	35.75	35.27	0.38	1.09	1.18
11.00	10.32	0.02	35.66	36.98	0.64	1.12	1.14
20.00	10.37	0.02	33.61	34.11	1.14	1.18	1.13
32.00	10.44	0.01	30.89	30.87	1.72	1.27	1.13
41.00	10.52	0.02	29.24	29.11	2.20	1.35	1.13
50.00	10.58	0.03	27.88	27.70	2.59	1.42	1.13
62.00	10.67	0.03	26.39	26.22	3.16	1.52	1.14
71.00	10.72	0.05	25.48	25.30	3.58	1.60	1.14
80.00	10.77	0.05	24.69	24.50	4.01	1.67	1.14
92.00	10.92	0.07	23.84	23.65	4.53	1.76	1.14
96.00	10.96	0.08	23.58	23.39	4.78	1.79	1.14
100.00	11.02	0.08	23.36	23.17	4.97	1.82	1.14

1. Total Loss = Insertion Loss + 10dB splitter loss.



electrical schematic



For detailed performance specs & shopping online see web site

Mini-Circuits
ISO 9001 ISO 14001 AS 9100 CERTIFIED

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine **IC212** Provides ACTUAL Data Instantly at minicircuits.com

IF/RF MICROWAVE COMPONENTS

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.

REV. D
M127604
ZFSC-10-1+
HY/TD/CP/AM
100603