Coaxial

Power Splitter/Combiner

ZFSC-8-4+
ZFSC-8-4

8 Way-0° 50Ω 5 to 700 MHz

BNC version shown

CASE STYLE: R29

Connectors	Model	Price	Qty.
BNC	ZFSC-8-4(+)	$128.95	(1-9)
SMA	ZFSC-8-4-S+	$153.95	(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

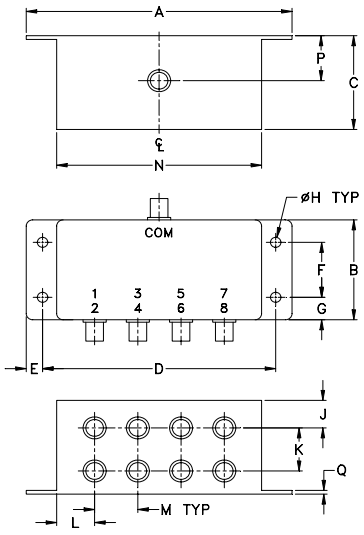
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.62W max.

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

Coaxial Connections

SUM PORT	S(COM)
PORT 1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H
4.06	1.60	1.57	3.56	.24	.88	.36	.160
103.12	40.64	39.88	90.42	6.10	22.35	9.14	4.06
J	**K**	**L**	**M**	**N**	**P**	**Q**	**wt.**
.43	.69	.58	.66	3.13	.79	.13	grams
10.92	17.53	14.73	16.76	79.50	20.07	3.30	200

Features

- wideband, 5 to 700 MHz
- good isolation, 25 dB typ.
- rugged shielded case

Applications

- VHF/UHF
- federal and defense communication
- communication systems

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 9.0 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.	Max.	Max.	Max.	Max.	Max.	Max.
5-700	35	20	25	17	20	17	0.8	1.2	1.2	1.8	1.8	2.5	2.0	5.0	15.0	0.2	0.4	0.7

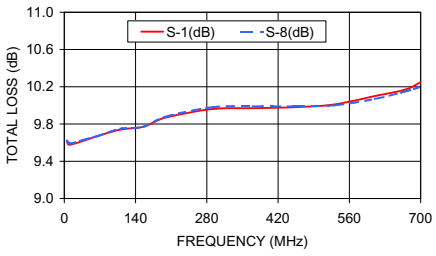
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U = upper range [f_U/2 to f_U]

Typical Performance Data

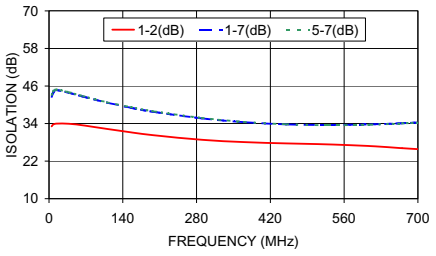
Freq. (MHz)	Total Loss[1] (dB)						Amp. Unbal. (dB)	Isolation (dB)				Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 8
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	1-7	3-4	5-7				
5.00	9.61	9.61	9.62	9.62	9.67	9.62	0.05	33.11	42.56	33.11	43.16	0.09	1.09	1.23	1.24
8.00	9.58	9.59	9.61	9.59	9.63	9.60	0.05	33.68	43.91	33.68	44.32	0.11	1.07	1.22	1.22
14.00	9.58	9.58	9.59	9.58	9.62	9.59	0.04	33.99	44.68	33.99	44.87	0.09	1.05	1.22	1.22
38.00	9.62	9.64	9.64	9.63	9.66	9.63	0.04	33.93	43.82	33.93	44.00	0.11	1.06	1.22	1.22
65.00	9.67	9.69	9.68	9.66	9.69	9.67	0.03	33.43	42.59	33.44	42.74	0.30	1.07	1.22	1.22
110.00	9.74	9.75	9.74	9.74	9.78	9.75	0.04	32.30	40.69	32.36	40.81	0.47	1.11	1.21	1.22
155.00	9.77	9.79	9.77	9.77	9.81	9.77	0.04	31.20	39.06	31.26	39.25	0.79	1.14	1.21	1.22
200.00	9.87	9.90	9.89	9.88	9.92	9.88	0.05	30.24	37.69	30.29	37.86	1.00	1.16	1.21	1.23
290.00	9.96	10.01	9.99	9.99	10.03	9.98	0.07	28.83	35.67	28.90	35.80	1.32	1.16	1.21	1.23
370.00	9.97	10.01	10.02	10.01	10.04	9.99	0.07	28.08	34.46	28.15	34.52	1.67	1.12	1.21	1.24
450.00	9.98	10.03	10.03	10.03	10.06	9.99	0.08	27.67	33.75	27.72	33.77	1.89	1.07	1.22	1.26
530.00	10.01	10.05	10.07	10.07	10.08	10.00	0.08	27.35	33.55	27.41	33.48	2.17	1.09	1.24	1.27
610.00	10.10	10.15	10.17	10.16	10.16	10.07	0.11	26.79	33.73	26.85	33.63	2.49	1.20	1.27	1.30
670.00	10.17	10.25	10.28	10.27	10.23	10.15	0.14	26.14	34.12	26.21	34.04	2.60	1.29	1.29	1.33
700.00	10.25	10.32	10.35	10.35	10.30	10.20	0.15	25.83	34.36	25.91	34.29	2.79	1.33	1.31	1.34

1. Total Loss = Insertion Loss + 9dB splitter loss.

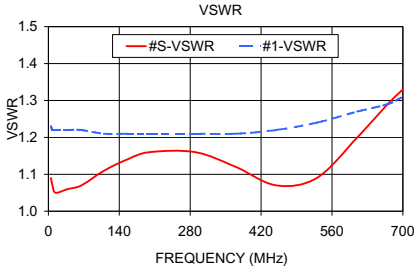
ZFSC-8-4+
TOTAL LOSS



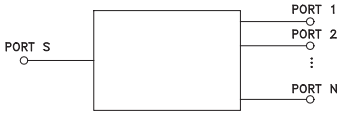
ZFSC-8-4+
ISOLATION



ZFSC-8-4+
VSWR



electrical schematic



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.