

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

Coaxial

Power Splitter/Combiner

ZFSC-8-4+
ZFSC-8-4

8 Way-0° 50Ω 5 to 700 MHz



Generic photo used for illustration purposes only

CASE STYLE: R29

Connectors	Model
BNC	ZFSC-8-4(+)
SMA	ZFSC-8-4-S+

Maximum Ratings

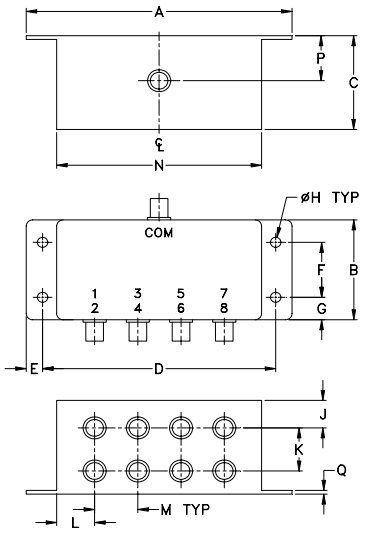
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.62W max.

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

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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

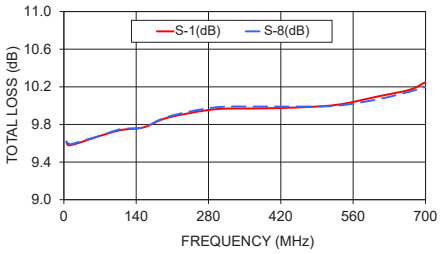
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U = upper range [f_U/2 to f_U]

Typical Performance Data

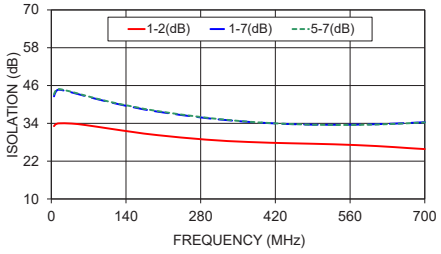
Freq. (MHz)	Total Loss[1] (dB)						Amp. Unbal. (dB)	Isolation (dB)				Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 8
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	1-7	3-4	5-7				
5.00	9.61	9.61	9.62	9.62	9.67	9.62	0.05	33.11	42.56	33.11	43.16	0.09	1.09	1.23	1.24
8.00	9.58	9.59	9.61	9.59	9.63	9.60	0.05	33.68	43.91	33.68	44.32	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.

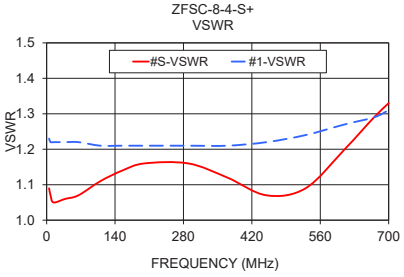
ZFSC-8-4-S+
TOTAL LOSS



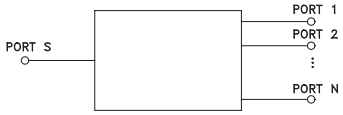
ZFSC-8-4-S+
ISOLATION



ZFSC-8-4-S+
VSWR



electrical schematic



Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

C. The parts covered by this specification document 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. E
M151107
ZFSC-8-4
HY/TD/CP/AM
200818

Mini-Circuits®

www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP