

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

ZMSC-4-2+

4 Way-0° 50Ω 0.002 to 20 MHz



Generic photo used for illustration purposes only

CASE STYLE: N24

Connectors	Model
SMA	ZMSC-4-2+
BRACKET (OPTION "B")	
BRACKET (OPTION "BR")	

+RoHS Compliant
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	0.250W max.

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

Coaxial Connections

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

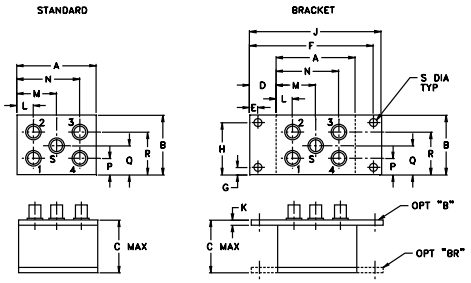
Features

- high isolation, 33 dB typ.
- rugged shielded case

Applications

- HF
- amateur radio

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H	J
1.50	1.13	1.00	.50	.155	2.345	.138	.987	2.50
38.10	28.70	25.40	12.70	3.94	59.56	3.51	25.07	63.50

K	L	M	N	P	Q	R	S	wt
.10	.32	.75	1.18	.31	.56	.81	.150	grams
2.54	8.13	19.05	29.97	7.87	14.22	20.57	3.81	45.0

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
f_L-f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
0.002-20	30	20	33	25	33	25	0.45	0.75	0.3	0.5	0.7	1.0	4	6	8	0.15	0.20	0.25

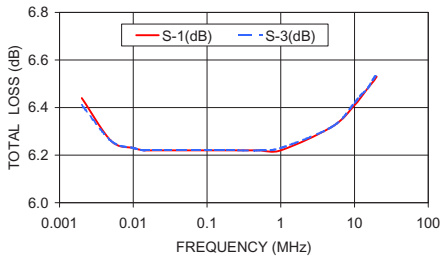
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]
* At low range frequency band (f_L to 10 f_L), linearly derate maximum power by 13dB.

Typical Performance Data

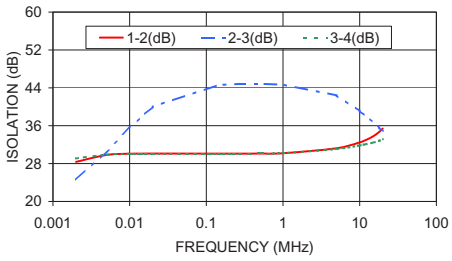
Freq. (MHz)	Total Loss[1] (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	2-3	3-4						
0.002	6.440	6.440	6.410	6.410	0.030	28.370	24.590	29.080	0.320	1.580	1.860	1.860	1.920	1.920
0.005	6.260	6.260	6.260	6.260	0.010	29.820	30.590	29.890	0.200	1.410	1.360	1.360	1.380	1.380
0.010	6.230	6.230	6.230	6.220	0.000	30.090	35.540	30.080	0.110	1.380	1.210	1.210	1.220	1.220
0.014	6.220	6.220	6.220	6.220	0.000	30.110	37.820	30.110	0.080	1.380	1.180	1.180	1.180	1.180
0.020	6.220	6.220	6.220	6.220	0.000	30.120	39.980	30.110	0.060	1.370	1.150	1.150	1.150	1.150
0.142	6.220	6.220	6.220	6.220	0.000	30.110	44.600	30.110	0.020	1.370	1.130	1.130	1.130	1.130
0.265	6.220	6.220	6.220	6.220	0.000	30.100	44.820	30.120	0.040	1.370	1.130	1.130	1.130	1.130
0.510	6.220	6.220	6.220	6.220	0.000	30.120	44.840	30.140	0.050	1.370	1.130	1.130	1.130	1.130
1.000	6.220	6.220	6.230	6.220	0.000	30.190	44.690	30.200	0.090	1.370	1.130	1.130	1.120	1.120
5.000	6.320	6.320	6.320	6.320	0.010	31.240	42.390	31.090	0.280	1.390	1.110	1.110	1.110	1.110
10.000	6.410	6.410	6.420	6.410	0.010	32.480	39.090	31.850	0.530	1.400	1.090	1.090	1.090	1.090
12.000	6.440	6.440	6.450	6.440	0.010	32.970	38.030	32.080	0.630	1.390	1.090	1.090	1.090	1.090
15.000	6.480	6.480	6.480	6.480	0.010	33.770	36.690	32.420	0.780	1.380	1.080	1.080	1.080	1.080
18.000	6.510	6.510	6.520	6.520	0.010	34.700	35.550	32.820	0.920	1.360	1.070	1.070	1.070	1.070
20.000	6.530	6.530	6.540	6.540	0.010	35.410	34.890	33.160	1.030	1.350	1.070	1.070	1.070	1.060

1. Total Loss = Insertion Loss + 6dB splitter loss.

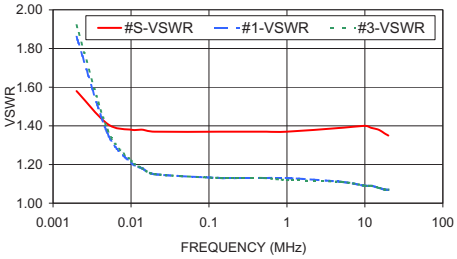
ZMSC-4-2+
TOTAL LOSS



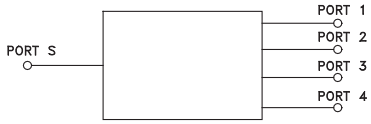
ZMSC-4-2+
ISOLATION



ZMSC-4-2+
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

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