

Coaxial

Power Splitter/Combiner

4 Way-0° 50Ω 0.1 to 200 MHz

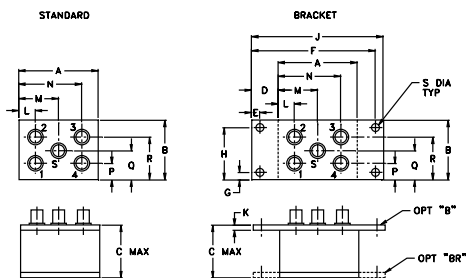
Maximum Ratings

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

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

Features

- high isolation, 30 dB typ.
- rugged shielded case

Applications

- HF/VHF
- radio communication
- receivers/transmitters

ZMSC-4-1+
ZMSC-4-1



CASE STYLE: N24

Connectors Model

SMA ZMSC-4-1(+)

BRACKET (OPTION "B") (+)

BRACKET (OPTION "BR") (+)

+RoHS Compliant

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

Electrical Specifications

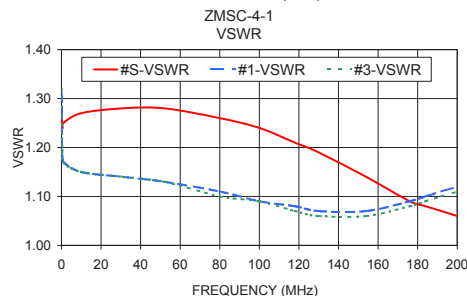
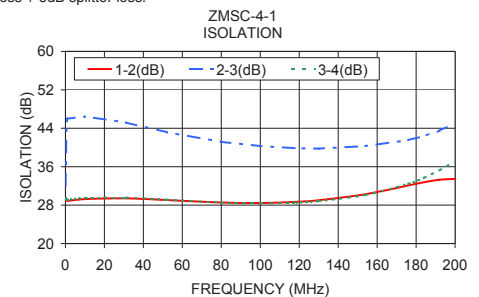
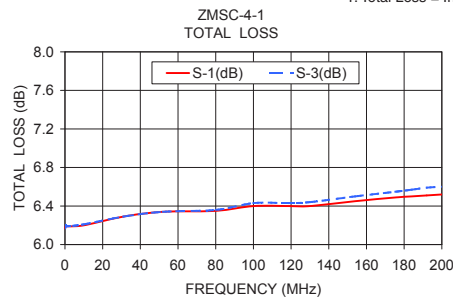
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 6.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
0.1-200	33	20	30	20	27	20	0.4	0.6	0.5	0.75	0.7	1.0	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]

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						
0.10	6.17	6.17	6.17	6.16	0.01	28.93	32.05	29.34	0.07	1.27	1.31	1.31	1.32	1.32
0.50	6.20	6.20	6.20	6.20	0.00	29.03	43.97	29.35	0.05	1.24	1.18	1.18	1.19	1.19
1.00	6.19	6.19	6.19	6.18	0.01	28.87	45.99	29.14	0.05	1.25	1.17	1.17	1.17	1.17
10.00	6.20	6.21	6.21	6.21	0.01	29.26	46.44	29.47	0.06	1.27	1.15	1.15	1.15	1.15
31.00	6.29	6.29	6.29	6.29	0.01	29.41	45.20	29.56	0.04	1.28	1.14	1.14	1.14	1.14
52.00	6.34	6.34	6.34	6.35	0.01	29.05	43.18	29.13	0.05	1.28	1.13	1.13	1.13	1.13
80.00	6.35	6.35	6.36	6.36	0.02	28.55	41.17	28.52	0.07	1.26	1.11	1.10	1.10	1.11
100.00	6.40	6.40	6.43	6.43	0.02	28.45	40.30	28.37	0.06	1.24	1.09	1.09	1.09	1.09
118.00	6.40	6.41	6.43	6.44	0.04	28.68	39.86	28.52	0.07	1.21	1.08	1.08	1.07	1.07
130.00	6.40	6.40	6.44	6.44	0.05	29.03	39.76	28.83	0.09	1.19	1.07	1.07	1.06	1.07
154.00	6.45	6.45	6.50	6.51	0.06	30.28	40.30	30.13	0.10	1.14	1.07	1.07	1.06	1.06
176.00	6.49	6.48	6.55	6.57	0.09	32.10	41.55	32.45	0.19	1.09	1.09	1.09	1.08	1.07
184.00	6.50	6.49	6.57	6.59	0.10	32.76	42.38	33.67	0.19	1.08	1.10	1.10	1.09	1.08
192.00	6.51	6.51	6.59	6.62	0.11	33.28	43.49	35.26	0.22	1.07	1.11	1.11	1.10	1.09
200.00	6.52	6.51	6.60	6.63	0.12	33.46	44.99	37.10	0.25	1.06	1.12	1.12	1.11	1.10

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



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

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ZMSC-4-1
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