

Coaxial Power Splitter/Combiner

ZMSC-2-1W ZMSC-2-1W+

2 Way-0° 50Ω 1 to 650 MHz



CASE STYLE: M21

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	0.125W max.

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

Coaxial Connections

SUM PORT	2
PORT 1	1
PORT 2	3

Features

- wideband, 1 to 650 MHz
- excellent isolation, 35 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1.0 deg. typ.
- rugged shielded case

Applications

- VHF/UHF
- instrumentation
- communications systems

Connectors	Model	Price	Qty.
SMA	ZMSC-2-1W(+)	\$54.95	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)
BRACKET (OPTION "BR")		\$1.50	(1+)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

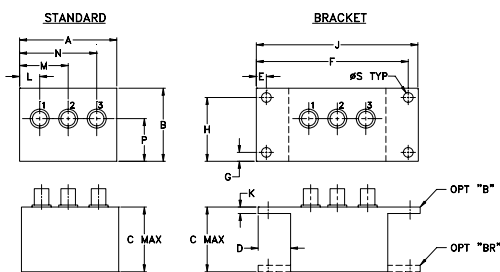
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB)** ABOVE 3.0 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.
1-650	25	20	35	20	25	20	0.3	0.5	0.5	0.8	0.7	1.0	2	3	4	0.15	0.20	0.30

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]

Outline Drawing

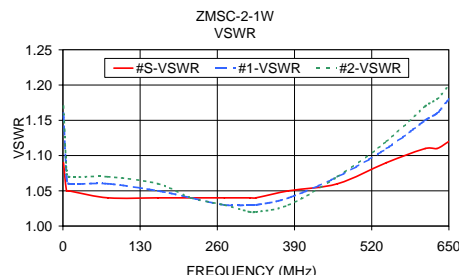
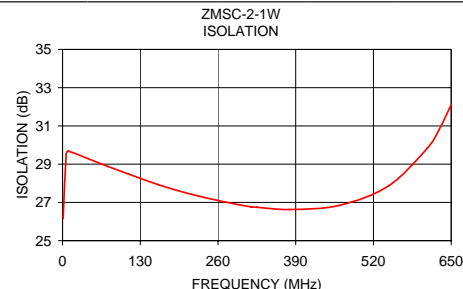
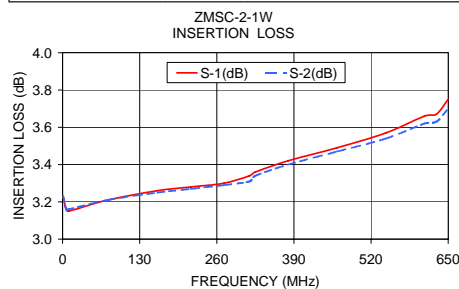


Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	S	wt
1.50	1.13	1.00	.50	.155	2.345	.138	.987	2.50	.10	.31	.75	1.19	.66	.150	grams
38.10	28.70	25.40	12.70	3.94	59.56	3.51	25.07	63.50	2.54	7.87	19.05	30.23	16.76	3.81	40.0

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
1.00	3.23	3.23	0.00	26.15	0.03	1.09	1.16	1.17
6.00	3.16	3.16	0.00	29.51	0.06	1.05	1.07	1.08
10.00	3.15	3.16	0.00	29.68	0.04	1.05	1.06	1.07
76.00	3.21	3.21	0.00	28.88	0.15	1.04	1.06	1.07
160.00	3.26	3.25	0.01	27.93	0.34	1.04	1.05	1.06
216.00	3.28	3.27	0.01	27.42	0.39	1.04	1.04	1.04
272.00	3.30	3.29	0.01	27.02	0.54	1.04	1.03	1.03
315.00	3.34	3.31	0.03	26.77	0.55	1.04	1.03	1.02
325.00	3.36	3.34	0.02	26.75	0.60	1.04	1.03	1.02
380.00	3.42	3.40	0.02	26.63	0.65	1.05	1.04	1.03
462.50	3.49	3.47	0.02	26.84	0.71	1.06	1.07	1.07
545.00	3.57	3.54	0.03	27.86	0.83	1.09	1.11	1.12
610.00	3.66	3.62	0.04	29.83	0.82	1.11	1.15	1.17
630.00	3.67	3.63	0.04	30.82	0.84	1.11	1.16	1.18
650.00	3.75	3.70	0.04	32.10	0.87	1.12	1.18	1.20



electrical schematic



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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.

For detailed performance specs & shopping online see web site

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