

Coaxial

Power Splitter/Combiner

ZMSC-2-2

2 Way-0° 50Ω 0.002 to 60 MHz

Maximum Ratings

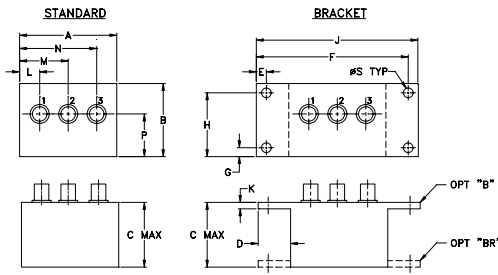
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

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

Coaxial Connections

SUM PORT	2
PORT 1	1
PORT 2	3

Outline Drawing



Outline Dimensions (inch/mm)

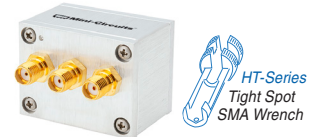
A	B	C	D	E	F	G	H	
1.50	1.13	1.00	.50	.155	2.345	.138	.987	
38.10	28.70	25.40	12.70	3.94	59.56	3.51	25.07	
J	K	L	M	N	P	S	wt	
2.50	.10	.31	.75	1.19	.66	.150	grams	
63.50	2.54	7.87	19.05	30.23	16.76	3.81	40.0	

Features

- wideband, 0.002 to 60 MHz
- low insertion loss, 0.3 dB typ.
- good isolation, 30 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 0.2 deg. typ.
- rugged shielded case

Applications

- HF
- amateur radio
- federal communications



Generic photo used for illustration purposes only

CASE STYLE: M21

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

Electrical Specifications

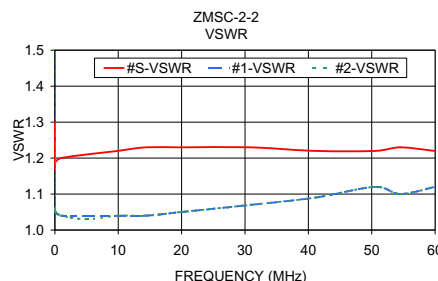
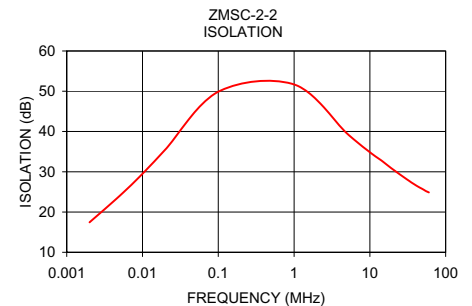
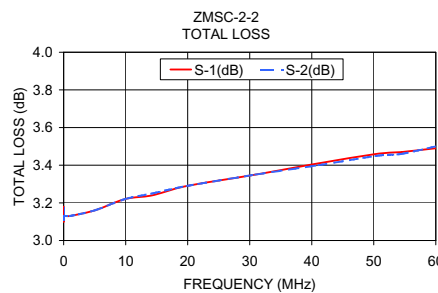
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB)** ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L*		M		U		L		M		U		L	M	U	L	M	U
f _c -f _u	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
0.002-60	27	20	30	20	27	20	0.3	0.6	0.3	0.6	0.6	1.0	2	3	4	0.15	0.25	0.3

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]
 * Isolation specified to 0.004 MHz

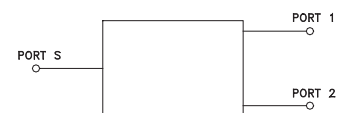
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2					
0.002	3.18	3.17	0.01	17.44	1.30	1.62	1.62
0.01	3.13	3.12	0.01	24.03	1.18	1.06	1.06
0.01	3.12	3.11	0.01	29.51	1.17	1.06	1.06
0.02	3.10	3.11	0.01	35.51	1.18	1.06	1.05
0.10	3.13	3.13	0.00	49.92	1.19	1.05	1.05
1.00	3.13	3.13	0.00	51.68	1.20	1.04	1.04
5.00	3.16	3.16	0.00	39.50	1.21	1.04	1.03
9.90	3.22	3.22	0.00	34.91	1.22	1.04	1.04
14.30	3.24	3.25	0.01	32.76	1.23	1.04	1.04
19.90	3.29	3.29	0.00	30.66	1.23	1.05	1.05
30.90	3.35	3.35	0.00	28.08	1.23	1.07	1.07
41.10	3.41	3.40	0.01	26.55	1.22	1.09	1.09
50.50	3.46	3.45	0.01	25.62	1.22	1.12	1.12
54.50	3.47	3.46	0.01	25.23	1.23	1.10	1.10
60.00	3.49	3.50	0.01	24.87	1.22	1.12	1.12

1. Total Loss = Insertion Loss + 3dB splitter loss.



electrical schematic



Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document are subject to Mini-Circuit's 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-Circuit's website at www.minicircuits.com/WCLStore/terms.jsp

