

Coaxial

# Power Splitter/Combiner

## ZMSC-2-2

2 Way-0° 50Ω 0.002 to 60 MHz



HT-Series  
Tight Spot  
SMA Wrench  
From \$24.95

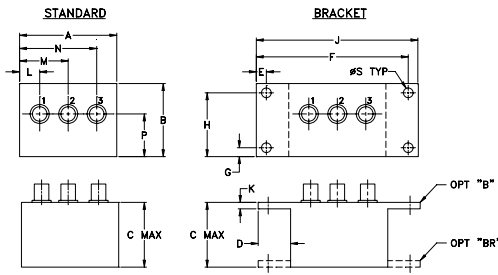
### Maximum Ratings

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

### Electrical Specifications

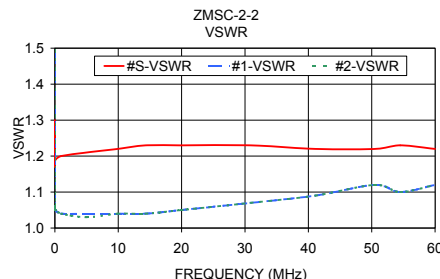
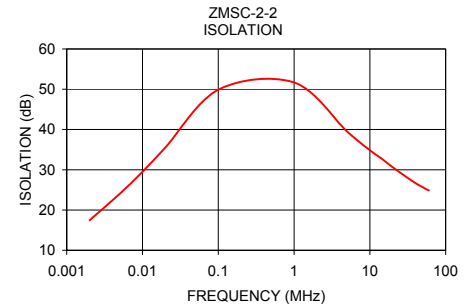
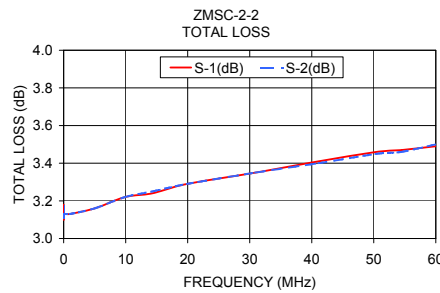
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB)** ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L*		M		U		L		M		U		L	M	U	L	M	U
	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
0.002-60	27	20	30	20	27	20	0.3	0.6	0.3	0.6	0.6	1.0	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 <sup>1</sup> (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
0.02	3.12	3.11	0.01	29.51	1.17	1.06	1.06
0.05	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.
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