

Power Splitter/Combiner

ZMSC-2-2

2 Way-0° 50Ω 0.002 to 60 MHz

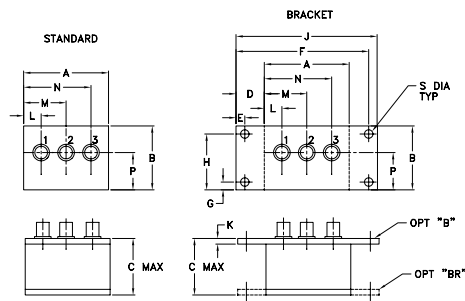
Maximum Ratings

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.

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



CASE STYLE: M21

Connectors	Model	Price	Qty.
SMA	ZMSC-2-2	\$59.95	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)
BRACKET (OPTION "BR")		\$1.50	(1+)

Splitter Electrical Specifications

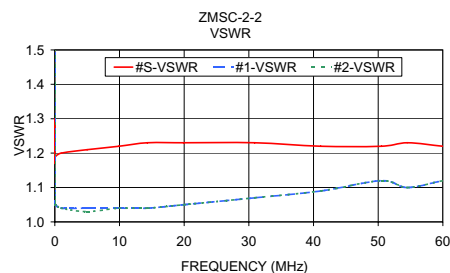
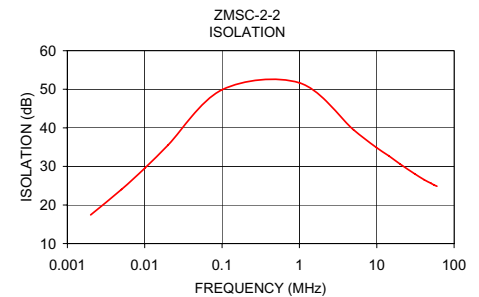
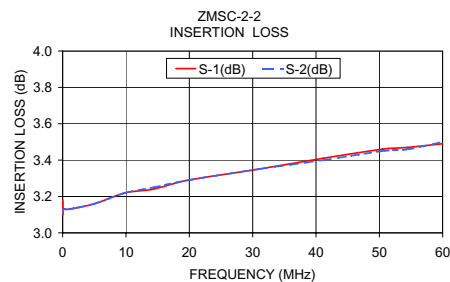
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB)** ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L*		M		U		L		M		U		L		M		U	
f_L - f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
0.002-60	27	20	30	20	27	20	0.3	0.6	0.3	0.6	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)	Insertion Loss (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



electrical schematic

