

Coaxial

Power Splitter/Combiner

ZMSC-2-2

2 Way-0° 50Ω 0.002 to 60 MHz

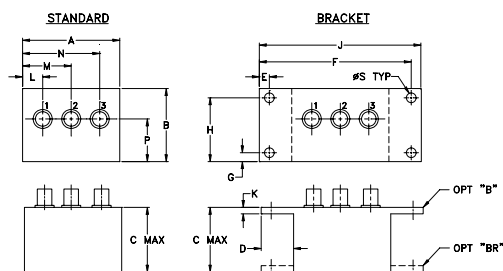
Maximum Ratings

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



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+)

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.
f _L -f _U	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

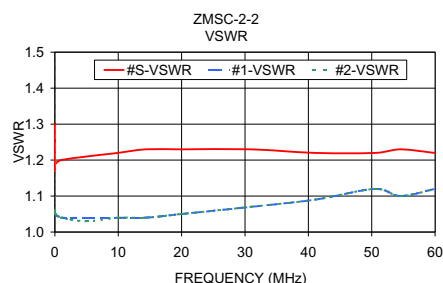
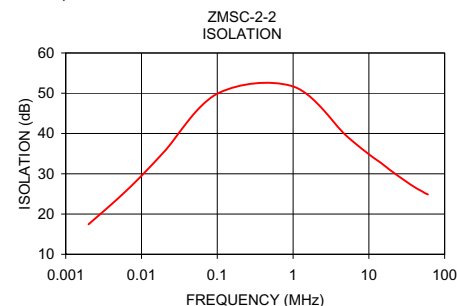
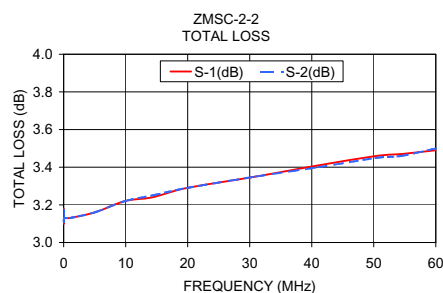
L = low range [f_L to $10 f_L$] M = mid range [$10 f_L$ to $f_U/2$] U = upper range [$f_U/2$ to f_U]

* Isolation specified to 0.004 MHz

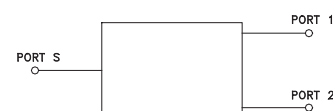
Typical Performance Data

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
0.02	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



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