Coaxial

Power Splitter/Combiner

ZMSC-4-2

4 Way-0° 50Ω 0.002 to 20 MHz

CASE STYLE: N24

Connectors	Model	Price	Qty.
SMA	ZMSC-4-2	$76.95	(1-9)
BRACKET (OPTION "B")		$5.00	(1+)
BRACKET (OPTION "BR")		$1.50	(1+)

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	0.250W max.

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4

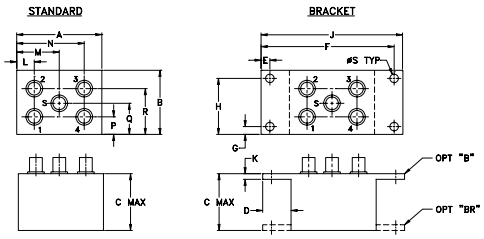
Features

- high isolation, 33 dB typ.
- rugged shielded case

Applications

- HF
- amateur radio

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H	J
1.50	1.13	1.00	.50	.155	2.345	.138	.987	2.50
38.10	28.70	25.40	12.70	3.94	59.56	3.51	25.07	63.50

K	L	M	N	P	Q	R	S	wt
.10	.32	.75	1.18	.31	.56	.81	.150	grams
2.54	8.13	19.05	29.97	7.87	14.22	20.57	3.81	45.0

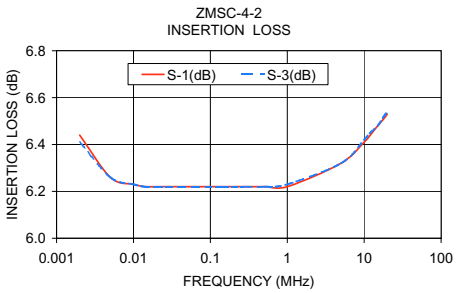
Electrical Specifications

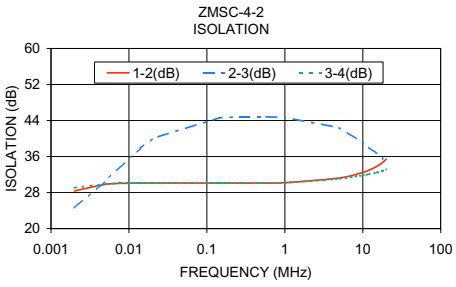
FREQ.* RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 6.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
f_L-f_U	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
0.002-20	30	20	33	25	33	25	0.45	0.75	0.3	0.5	0.7	1.0	4	6	8	0.15	0.20	0.25

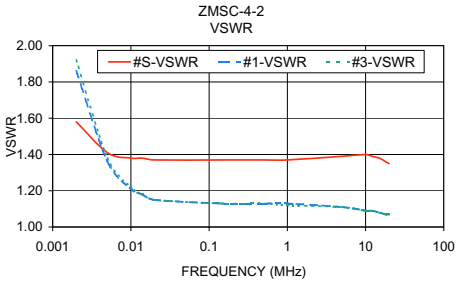
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]
* At low range frequency band (f_L to 10 f_L), linearly derate maximum power by 13dB.

Typical Performance Data

Freq. (MHz)	Insertion Loss (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	2-3	3-4						
0.002	6.440	6.440	6.410	6.410	0.030	28.370	24.590	29.080	0.320	1.580	1.860	1.860	1.920	1.920
0.005	6.260	6.260	6.260	6.260	0.010	29.820	30.590	29.890	0.200	1.410	1.360	1.360	1.380	1.380
0.010	6.230	6.230	6.230	6.220	0.000	30.090	35.540	30.080	0.110	1.380	1.210	1.210	1.220	1.220
0.014	6.220	6.220	6.220	6.220	0.000	30.110	37.820	30.110	0.080	1.380	1.180	1.180	1.180	1.180
0.020	6.220	6.220	6.220	6.220	0.000	30.120	39.980	30.110	0.060	1.370	1.150	1.150	1.150	1.150
0.142	6.220	6.220	6.220	6.220	0.000	30.110	44.600	30.110	0.020	1.370	1.130	1.130	1.130	1.130
0.265	6.220	6.220	6.220	6.220	0.000	30.100	44.820	30.120	0.040	1.370	1.130	1.130	1.130	1.130
0.510	6.220	6.220	6.220	6.220	0.000	30.120	44.840	30.140	0.050	1.370	1.130	1.130	1.130	1.130
1.000	6.220	6.220	6.230	6.220	0.000	30.190	44.690	30.200	0.090	1.370	1.130	1.130	1.120	1.120
5.000	6.320	6.320	6.320	6.320	0.010	31.240	42.390	31.090	0.280	1.390	1.110	1.110	1.110	1.110
10.000	6.410	6.410	6.420	6.410	0.010	32.480	39.090	31.850	0.530	1.400	1.090	1.090	1.090	1.090
12.000	6.440	6.440	6.450	6.440	0.010	32.970	38.030	32.080	0.630	1.390	1.090	1.090	1.090	1.090
15.000	6.480	6.480	6.480	6.480	0.010	33.770	36.690	32.420	0.780	1.380	1.080	1.080	1.080	1.080
18.000	6.510	6.510	6.520	6.520	0.010	34.700	35.550	32.820	0.920	1.360	1.070	1.070	1.070	1.070
20.000	6.530	6.530	6.540	6.540	0.010	35.410	34.890	33.160	1.030	1.350	1.070	1.070	1.070	1.060







electrical schematic