

Coaxial

Power Splitter/Combiner

ZMSC-4-3

4 Way-0° 50Ω 0.25 to 250 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	0.250W max.
Permanent damage may occur if any of these limits are exceeded.	

Coaxial Connections

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

Features

- wideband, 0.25 to 250 MHz
- high isolation, 30 dB typ.
- good VSWR, 1.15:1 typ.

Applications

- HF/VHF
- radio communication
- receivers/transmitters

CASE STYLE: N24

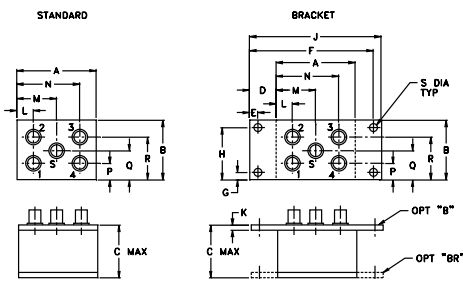
Connectors	Model	Price	Qty.
SMA	ZMSC-4-3	\$64.95	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)
BRACKET (OPTION "BR")		\$1.50	(1+)

Electrical Specifications

FREQ.* RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 6.0 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	33	20	30	20	27	20	0.4	0.7	0.5	0.75	0.7	1.2	4	6	10	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]

Outline Drawing

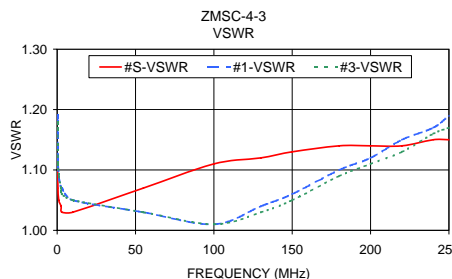
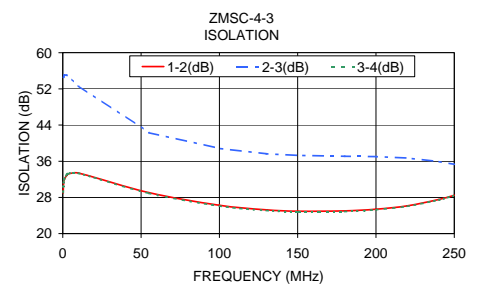
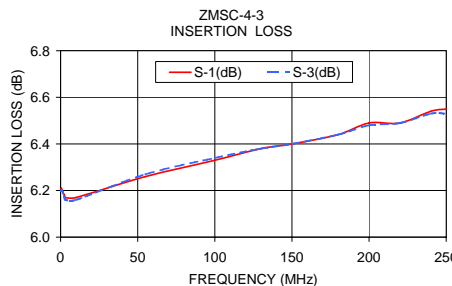


Outline Dimensions (inch/mm)

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

Typical Performance Data

Freq. (MHz)	Insertion Loss (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR	VSWR	VSWR	VSWR	VSWR
	S-1	S-2	S-3	S-4		1-2	2-3	3-4		S	1	2	3	4
0.25	6.20	6.20	6.20	6.19	0.01	28.97	54.63	29.13	0.06	1.11	1.19	1.19	1.18	1.19
0.50	6.21	6.20	6.20	6.21	0.01	31.12	54.58	31.26	0.09	1.07	1.12	1.12	1.11	1.12
1.00	6.20	6.20	6.20	6.21	0.01	31.99	55.08	32.12	0.10	1.05	1.09	1.09	1.09	1.09
2.50	6.18	6.17	6.17	6.17	0.01	32.86	55.05	33.09	0.10	1.04	1.07	1.07	1.07	1.07
3.00	6.17	6.16	6.16	6.17	0.01	33.09	54.93	33.26	0.11	1.03	1.07	1.07	1.06	1.06
10.00	6.17	6.17	6.16	6.16	0.01	33.40	52.68	33.34	0.07	1.03	1.05	1.05	1.05	1.05
55.00	6.26	6.27	6.27	6.26	0.01	29.06	42.32	28.92	0.12	1.07	1.03	1.03	1.03	1.03
100.00	6.33	6.33	6.34	6.33	0.02	26.26	38.85	26.11	0.15	1.11	1.01	1.01	1.01	1.01
130.00	6.38	6.38	6.38	6.39	0.02	25.25	37.66	25.12	0.26	1.12	1.04	1.04	1.03	1.03
150.00	6.40	6.40	6.40	6.41	0.01	24.95	37.30	24.83	0.22	1.13	1.06	1.06	1.05	1.05
180.00	6.44	6.43	6.44	6.44	0.01	25.03	37.10	24.89	0.30	1.14	1.10	1.10	1.09	1.08
200.00	6.49	6.47	6.48	6.49	0.02	25.40	37.03	25.29	0.37	1.14	1.12	1.12	1.11	1.11
220.00	6.49	6.48	6.49	6.50	0.02	26.14	36.72	26.05	0.41	1.14	1.15	1.15	1.13	1.13
240.00	6.54	6.54	6.53	6.56	0.02	27.54	35.94	27.44	0.34	1.15	1.17	1.17	1.16	1.16
250.00	6.55	6.55	6.53	6.57	0.04	28.48	35.32	28.41	0.38	1.15	1.19	1.19	1.17	1.16



electrical schematic



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