

Coaxial

# Power Splitter/Combiner

## ZMSCQ-2-120

2 Way-90° 50Ω 80 to 120 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 (0°)	1
PORT 2 (+90°)	3

### Features

- low insertion loss, 0.3 dB typ.
- high isolation, 21 dB typ.
- rugged shielded case

### Applications

- VHF
- test set-ups

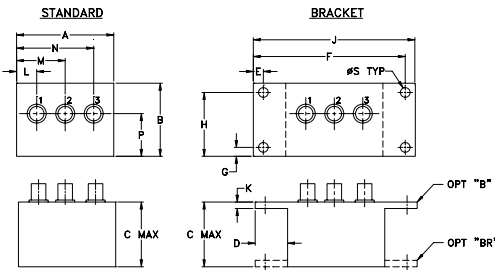
CASE STYLE: M21

Connectors	Model	Price	Qty.
SMA	ZMSCQ-2-120	\$61.95	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)
BRACKET (OPTION "BR")		\$1.50	(1+)

### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) Avg. of Coupled Outputs less 3 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
	Typ.	Min.	Typ.	Max.	Max.	Max.
$f_L$ - $f_U$						
80-120	21	18	0.3	0.7	3.0	1.5

### 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

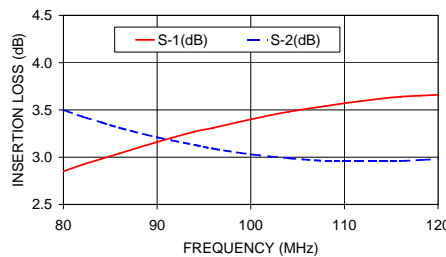
  

J	K	L	M	N	P	S	wt
2.50	.10	.31	.75	1.19	.66	.150	grams
63.50	2.54	7.87	19.05	30.23	16.76	3.81	40.0

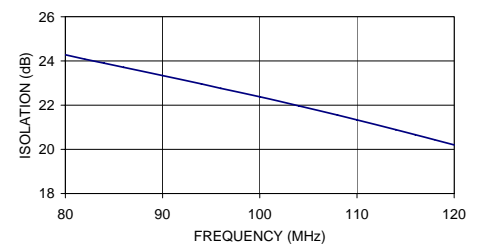
### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
80.00	2.85	3.50	0.65	24.28	88.27	1.16	1.17	1.19
82.00	2.92	3.43	0.52	24.08	88.25	1.16	1.17	1.20
84.00	2.98	3.37	0.39	23.90	88.22	1.17	1.17	1.20
86.00	3.04	3.31	0.27	23.71	88.19	1.17	1.17	1.21
90.00	3.16	3.21	0.05	23.34	88.15	1.18	1.17	1.22
94.00	3.27	3.13	0.14	22.96	88.09	1.19	1.17	1.24
96.00	3.31	3.09	0.23	22.76	88.08	1.19	1.17	1.25
100.00	3.40	3.03	0.37	22.38	88.04	1.20	1.17	1.27
104.00	3.48	2.99	0.49	21.97	88.02	1.22	1.17	1.28
108.00	3.54	2.96	0.58	21.55	88.01	1.23	1.18	1.31
110.00	3.57	2.96	0.62	21.33	88.01	1.24	1.18	1.32
114.00	3.62	2.96	0.66	20.89	88.03	1.26	1.18	1.34
116.00	3.64	2.96	0.68	20.66	88.04	1.27	1.18	1.35
118.00	3.65	2.97	0.68	20.43	88.05	1.28	1.18	1.37
120.00	3.66	2.98	0.68	20.20	88.07	1.29	1.19	1.38

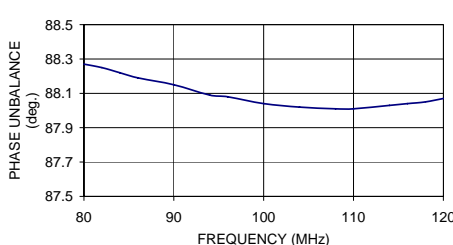
ZMSCQ-2-120 INSERTION LOSS



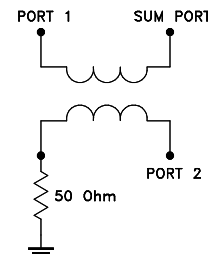
ZMSCQ-2-120 ISOLATION



ZMSCQ-2-120 PHASE UNBALANCE



### electrical schematic



For detailed performance specs & shopping online see web site

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