

# Coaxial Power Splitter/Combiner

## ZMSCQ-2-50+ ZMSCQ-2-50

2 Way-90° 50Ω 25 to 50 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, 27 dB typ.
- rugged shielded case

### Applications

- VHF
- modulators
- test set-ups

CASE STYLE: M21

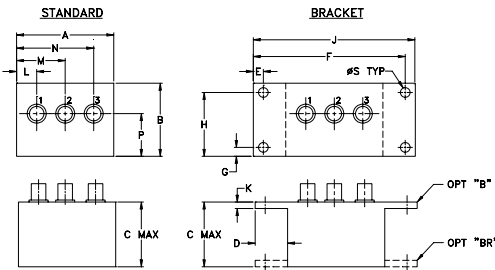
Connectors	Model	Price	Qty.
SMA	ZMSCQ-2-50(+)	\$61.95	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)
BRACKET (OPTION "BR")		\$1.50	(1+)

**+RoHS Compliant**  
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) Avg. of Coupled Outputs ABOVE 3 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
	Typ.	Min.	Typ.	Max.	Max.	Max.
$f_L$ - $f_U$						
25-50	27	20	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

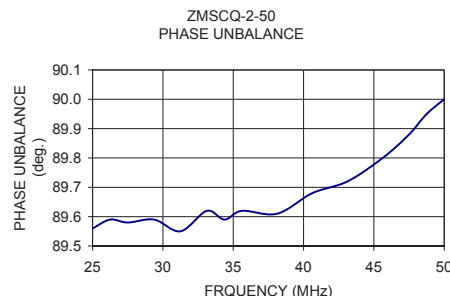
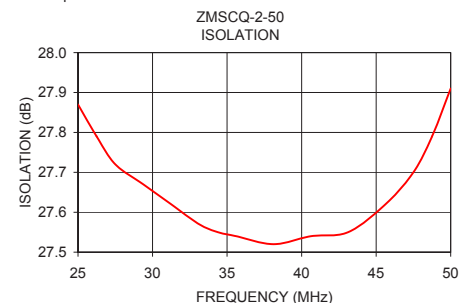
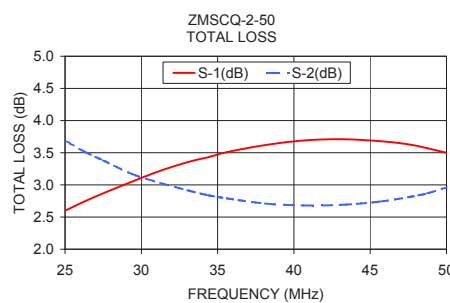
  

J	K	L	M	N	P	S	wt
2.50	.10	.31	.75	1.19	.66	.150	grams
63.50	2.54	7.87	19.05	30.23	16.76	3.81	40.0

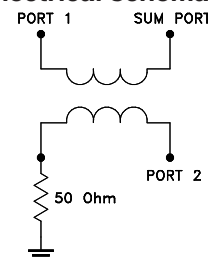
### Typical Performance Data

Frequency (MHz)	Total Loss <sup>1</sup> (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
25.00	2.60	3.69	1.09	27.87	89.56	1.12	1.12	1.11
26.25	2.74	3.52	0.78	27.79	89.59	1.12	1.12	1.11
27.50	2.87	3.38	0.51	27.72	89.58	1.12	1.12	1.11
29.38	3.05	3.17	0.13	27.67	89.59	1.11	1.12	1.11
31.25	3.22	3.03	0.19	27.62	89.55	1.11	1.12	1.10
33.12	3.36	2.91	0.45	27.57	89.62	1.11	1.12	1.10
34.38	3.43	2.84	0.60	27.55	89.59	1.11	1.12	1.10
35.62	3.51	2.79	0.72	27.54	89.62	1.11	1.12	1.10
38.12	3.62	2.71	0.91	27.52	89.61	1.11	1.12	1.09
40.62	3.69	2.68	1.01	27.54	89.68	1.11	1.12	1.09
43.12	3.71	2.69	1.03	27.55	89.72	1.11	1.12	1.09
45.62	3.68	2.74	0.94	27.62	89.80	1.12	1.13	1.09
47.50	3.63	2.81	0.82	27.70	89.88	1.12	1.13	1.09
48.75	3.57	2.87	0.69	27.79	89.95	1.12	1.13	1.09
50.00	3.50	2.96	0.54	27.91	90.00	1.13	1.13	1.09

1. Total Loss = Insertion Loss + 3dB splitter loss.



### electrical schematic



For detailed performance specs & shopping online see web site



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4861 The Design Engineers Search Engine Provides ACTUAL Data Instantly at [minicircuits.com](http://minicircuits.com)

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp).

REV. C  
M137447  
ZMSCQ-2-50  
HY/TD/CP/AM  
120601