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

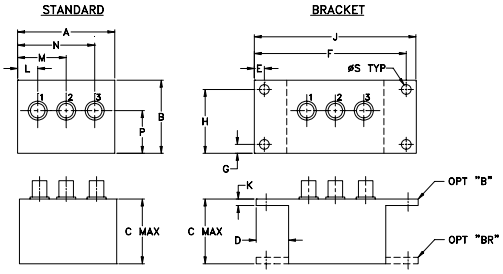
CASE STYLE: M21

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

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

Electrical Specifications

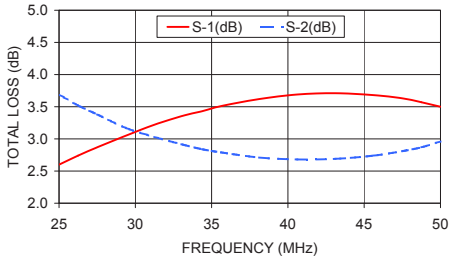
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) Avg. of Coupled Outputs ABOVE 3 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.
25-50	27	20	0.3	0.7	3.0	1.5

Typical Performance Data

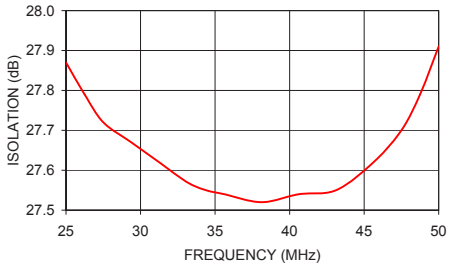
Frequency (MHz)	Total Loss[1] (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
25.00	2.60	3.69	1.09	27.87	89.56	1.12	1.12	1.11
26.25	2.74	3.52	0.78	27.79	89.59	1.12	1.12	1.11
27.50	2.87	3.38	0.51	27.72	89.58	1.12	1.12	1.11
29.38	3.05	3.17	0.13	27.67	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.

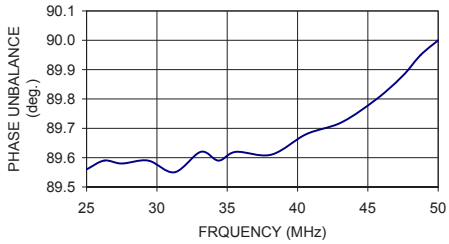
ZMSCQ-2-50
TOTAL LOSS



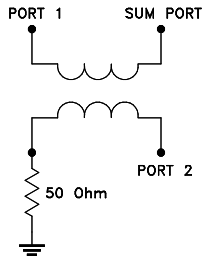
ZMSCQ-2-50
ISOLATION



ZMSCQ-2-50
PHASE UNBALANCE



electrical schematic



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IF/RF MICROWAVE COMPONENTS

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