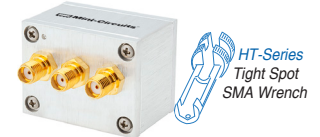


Coaxial Power Splitter/Combiner

ZMSCQ-2-90

2 Way-90° 50Ω 55 to 90 MHz



Generic photo used for illustration purposes only

CASE STYLE: M21
 Connectors Model
SMA ZMSCQ-2-90
BRACKET (OPTION "B")
BRACKET (OPTION "BR")

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

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, 30 dB typ.
- rugged shielded case

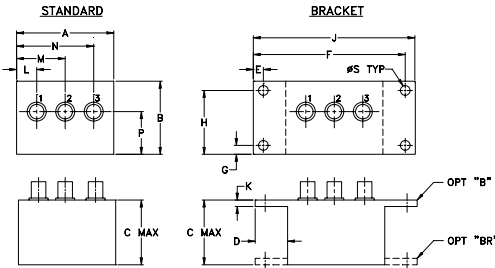
Applications

- VHF
- modulators
- test set-ups

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						
55-90	30	20	0.3	0.7	3.0	1.2

Outline Drawing



Outline Dimensions (inch/mm)

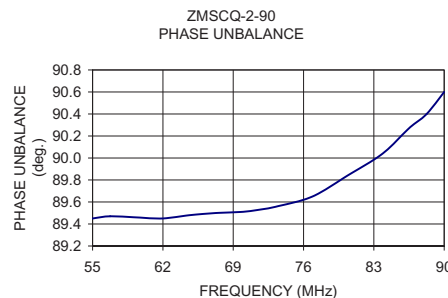
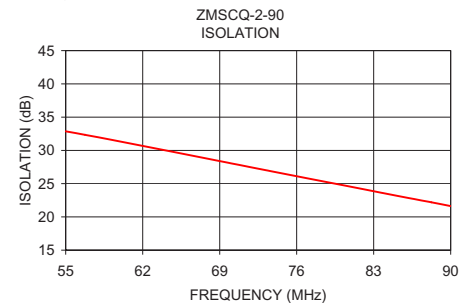
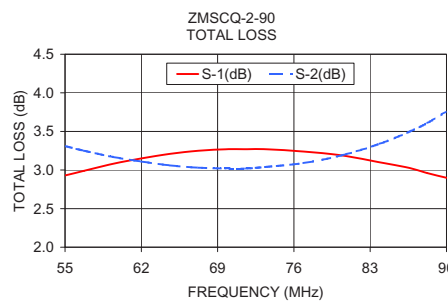
A	B	C	D	E	F	G	H
1.50	1.13	1.00	.50	.155	2.345	.138	.987
38.10	28.70	25.40	12.70	3.94	59.56	3.51	25.07

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

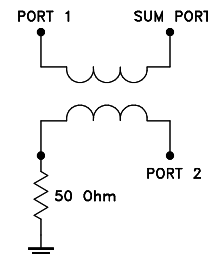
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
55.00	2.93	3.31	0.39	32.86	89.45	1.07	1.09	1.05
56.75	2.99	3.25	0.26	32.34	89.47	1.07	1.09	1.05
59.38	3.08	3.17	0.09	31.52	89.46	1.08	1.09	1.06
62.00	3.15	3.11	0.05	30.67	89.45	1.08	1.10	1.06
64.62	3.21	3.06	0.15	29.83	89.48	1.09	1.11	1.07
67.25	3.25	3.03	0.22	28.96	89.50	1.09	1.12	1.08
69.88	3.27	3.02	0.25	28.11	89.51	1.10	1.12	1.09
71.62	3.27	3.02	0.25	27.54	89.53	1.11	1.13	1.10
73.38	3.27	3.04	0.23	26.97	89.56	1.12	1.14	1.10
76.88	3.24	3.09	0.15	25.83	89.65	1.13	1.15	1.12
80.38	3.19	3.19	0.00	24.71	89.84	1.15	1.17	1.14
83.88	3.10	3.34	0.24	23.58	90.04	1.17	1.19	1.16
86.50	3.03	3.49	0.46	22.74	90.27	1.18	1.21	1.18
88.25	2.96	3.61	0.65	22.19	90.40	1.20	1.22	1.19
90.00	2.90	3.76	0.86	21.62	90.60	1.21	1.24	1.21

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



electrical schematic



Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document 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

