

Coaxial Power Splitter/Combiner

ZMSCQ-2-90

2 Way-90° 50Ω 55 to 90 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, 30 dB typ.
- rugged shielded case

Applications

- VHF
- modulators
- test set-ups

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

Electrical Specifications

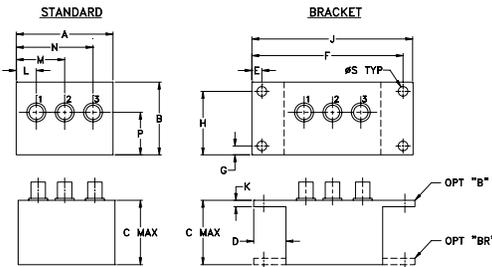
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) Avg. of Coupled Outputs ABOVE 3 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
	Typ.	Min.	Typ.	Max.	Max.	Max.
f _L -f _U						
55-90	30	20	0.3	0.7	3.0	1.2

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

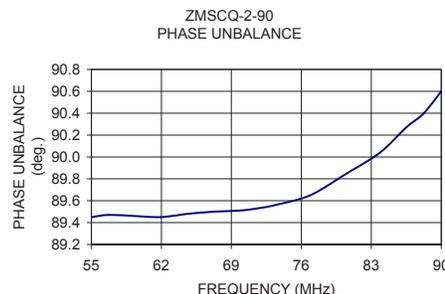
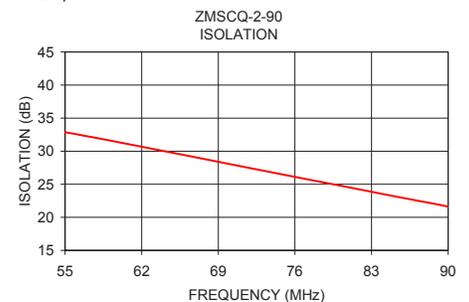
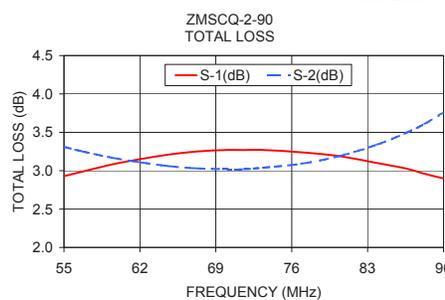
1. Total Loss = Insertion Loss + 3dB splitter loss.

Outline Drawing

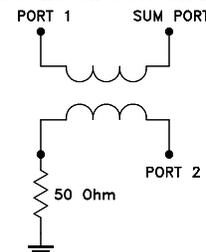


Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	S	wt
1.50	1.13	1.00	.50	.155	2.345	.138	.987	2.50	.10	.31	.75	1.19	.66	.150	grams
38.10	28.70	25.40	12.70	3.94	59.56	3.51	25.07	63.50	2.54	7.87	19.05	30.23	16.76	3.81	40.0



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.
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