

Plug-In

# Power Splitter/Combiner

## PSCQ-2-70N+

2 Way-90° 50Ω 66 to 74 MHz



Generic photo used for illustration purposes only

CASE STYLE: A01

**+RoHS Compliant**

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

### Maximum Ratings

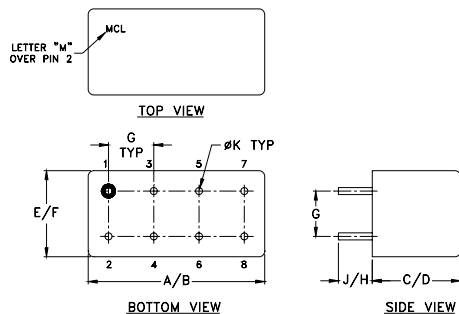
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.

Permanent damage may occur if any of these limits are exceeded.

### Pin Connections

SUM PORT	1
PORT 1 (+90°)	2
PORT 2 (0°)	5
GROUND	3,4,7,8
CASE GROUND	3,4,7,8
50 OHM TERM EXTERNAL	6

### Outline Drawing



### Outline Dimensions (inch/mm)

A	B	C	D	E	F	
.770	.800	.385	.400	.370	.400	
19.56	20.32	9.78	10.16	9.40	10.16	
G	H	J	K			wt
.200	.20	.14	.031			grams
5.08	5.08	3.56	0.79			5.2

### Features

- low insertion loss, 0.2 dB typ.
- low amplitude unbalance, 0.25 dB max.
- excellent phase unbalance, 0.5 deg. typ.
- rugged shielded case

### Applications

- modulators
- balanced amplifiers

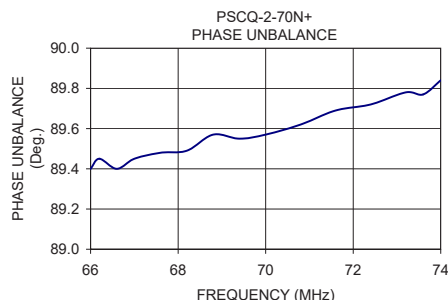
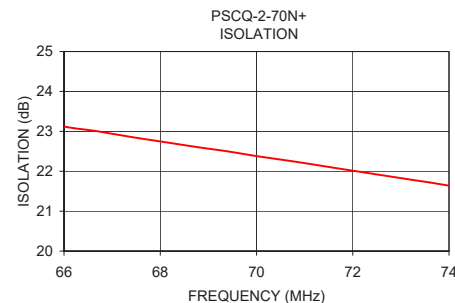
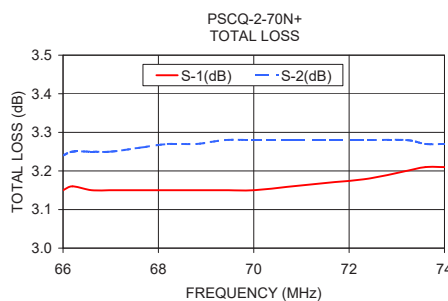
### Electrical Specifications

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.
66-74	22 19	0.2 0.5	0.8	0.25

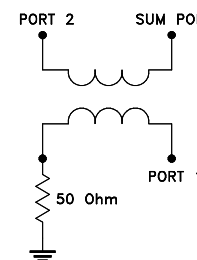
### Typical Performance Data

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						
66.00	3.15	3.24	0.09	23.12	89.40	1.11	1.16	1.09
66.20	3.16	3.25	0.09	23.08	89.45	1.12	1.16	1.09
66.60	3.15	3.25	0.11	23.02	89.40	1.12	1.16	1.09
67.00	3.15	3.25	0.11	22.94	89.45	1.12	1.17	1.10
67.60	3.15	3.26	0.11	22.82	89.48	1.12	1.17	1.10
68.20	3.15	3.27	0.12	22.71	89.49	1.12	1.17	1.10
68.80	3.15	3.27	0.13	22.60	89.57	1.12	1.17	1.10
69.40	3.15	3.28	0.12	22.50	89.55	1.12	1.17	1.10
70.00	3.15	3.28	0.13	22.38	89.57	1.13	1.18	1.10
70.80	3.16	3.28	0.12	22.24	89.62	1.13	1.18	1.10
71.60	3.17	3.28	0.11	22.09	89.69	1.13	1.18	1.10
72.40	3.18	3.28	0.10	21.94	89.72	1.13	1.19	1.11
73.20	3.20	3.28	0.08	21.79	89.78	1.14	1.19	1.11
73.60	3.21	3.27	0.07	21.72	89.77	1.14	1.19	1.11
74.00	3.21	3.27	0.06	21.64	89.84	1.14	1.19	1.11

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](http://www.minicircuits.com/MCLStore/terms.jsp)

