

Plug-In

Power Splitter/Combiner

PSCQ-2-120+

2 Way-90° 50Ω 80 to 120 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

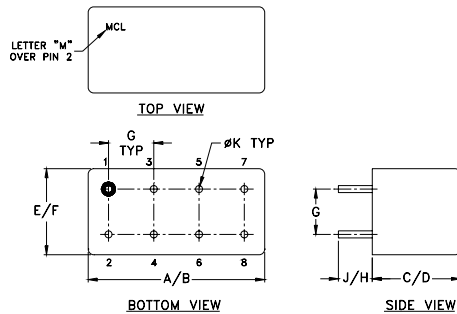
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.

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, 0.3 dB typ.
- good isolation, 25 dB typ.
- rugged shielded case

Applications

- modulators
- balanced amplifiers

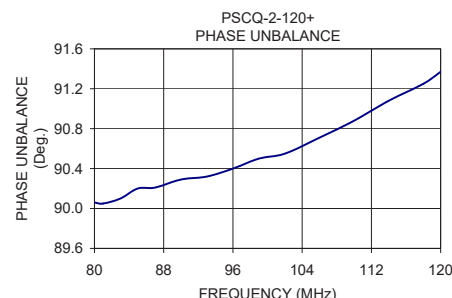
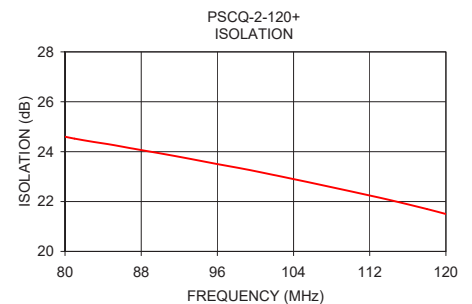
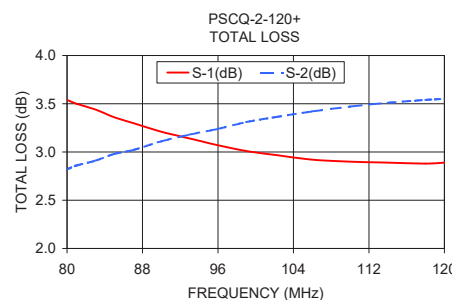
Electrical Specifications

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.
80-120	25 18	0.3 0.7	3	1.5

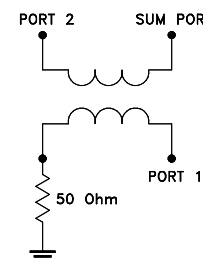
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
80.00	3.54	2.82	0.72	24.60	90.06	1.15	1.13	1.16
81.00	3.50	2.86	0.65	24.52	90.05	1.15	1.13	1.16
83.00	3.44	2.91	0.52	24.39	90.10	1.15	1.13	1.16
85.00	3.36	2.98	0.38	24.27	90.20	1.15	1.13	1.16
87.00	3.30	3.02	0.27	24.13	90.21	1.15	1.13	1.16
90.00	3.21	3.11	0.10	23.93	90.29	1.15	1.13	1.16
93.00	3.14	3.18	0.04	23.72	90.32	1.15	1.13	1.17
96.00	3.07	3.24	0.17	23.50	90.40	1.15	1.14	1.17
99.00	3.01	3.31	0.30	23.29	90.50	1.15	1.14	1.17
102.00	2.97	3.36	0.39	23.06	90.55	1.15	1.14	1.18
106.00	2.92	3.42	0.50	22.74	90.71	1.15	1.15	1.19
110.00	2.90	3.47	0.58	22.41	90.88	1.16	1.15	1.20
114.00	2.89	3.51	0.63	22.07	91.08	1.16	1.16	1.21
118.00	2.88	3.54	0.66	21.70	91.25	1.17	1.17	1.22
120.00	2.89	3.55	0.66	21.50	91.37	1.17	1.17	1.22

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.
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