

Plug-In

Power Splitter/Combiner

PSCQ-2-180+

2 Way-90° 50Ω 120 to 180 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

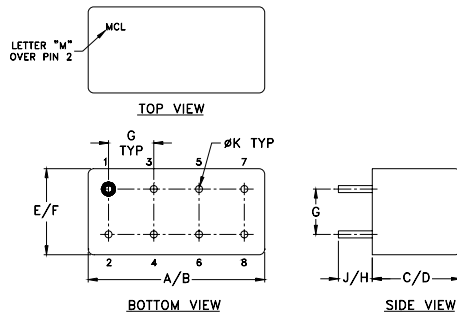
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.

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, 0.4 dB typ.
- excellent isolation, 30 dB typ.
- excellent VSWR, 1.10:1 typ.
- rugged shielded case

Applications

- modulators
- balanced amplifiers

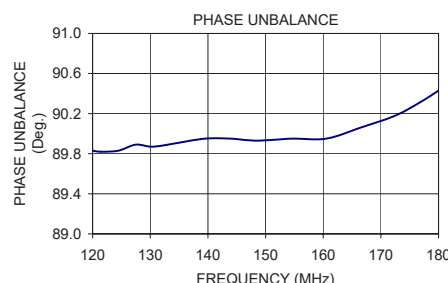
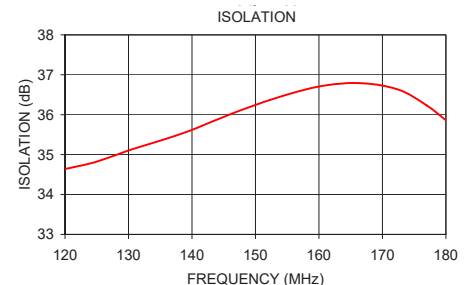
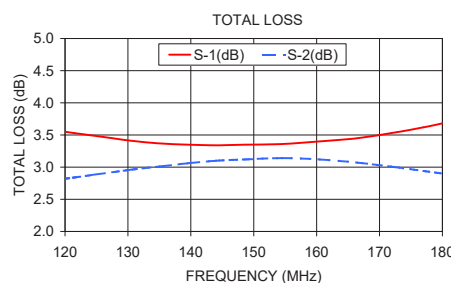
Electrical Specifications

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.
120-180	23 15	0.3 0.7	4	1.2

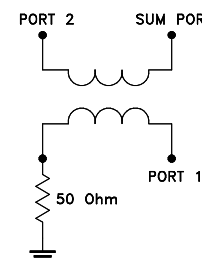
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
120.00	3.55	2.82	0.73	34.64	89.83	1.04	1.05	1.04
121.50	3.53	2.84	0.69	34.69	89.82	1.04	1.05	1.05
124.50	3.49	2.88	0.60	34.80	89.83	1.04	1.05	1.05
127.50	3.45	2.92	0.52	34.96	89.89	1.04	1.06	1.05
130.50	3.41	2.96	0.46	35.13	89.87	1.04	1.06	1.05
135.00	3.37	3.01	0.36	35.35	89.91	1.04	1.06	1.05
139.50	3.35	3.06	0.29	35.59	89.95	1.04	1.06	1.05
144.00	3.34	3.10	0.24	35.88	89.95	1.05	1.06	1.05
148.50	3.35	3.12	0.22	36.16	89.93	1.05	1.07	1.05
154.50	3.36	3.14	0.22	36.48	89.95	1.05	1.07	1.06
160.50	3.40	3.12	0.28	36.72	89.95	1.06	1.08	1.06
166.50	3.45	3.07	0.39	36.79	90.06	1.07	1.08	1.06
172.50	3.54	3.00	0.54	36.63	90.18	1.08	1.09	1.07
177.00	3.62	2.94	0.68	36.23	90.32	1.08	1.10	1.07
180.00	3.68	2.90	0.78	35.86	90.43	1.09	1.10	1.08

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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