

Plug-In Power Splitter/Combiner

PSCQ-2-14+

2 Way-90° 50Ω 12 to 16 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

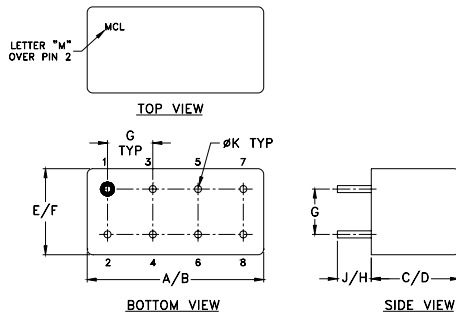
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.

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.
- excellent isolation, 30 dB typ.
- excellent phase unbalance, 1 deg. typ.
- excellent VSWR, 1.05:1 typ.
- rugged shielded case

Applications

- modulators
- balanced amplifiers

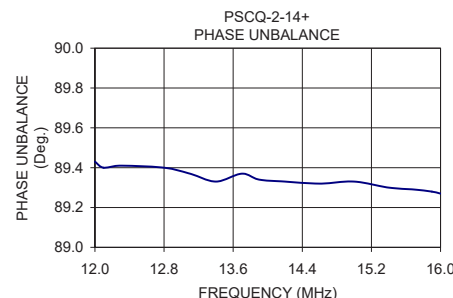
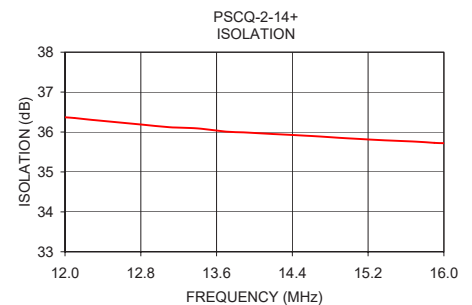
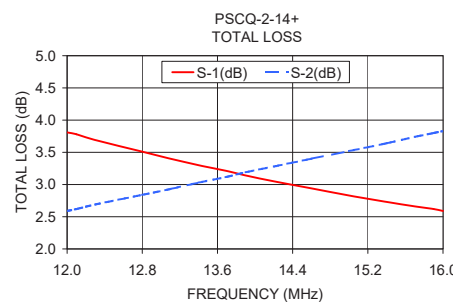
Electrical Specifications

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.
12-16	30 25	0.3 0.6	3	1.8

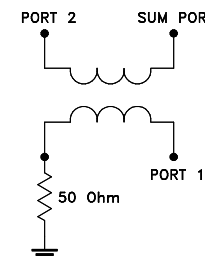
Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
12.00	3.81	2.59	1.22	36.37	89.43	1.03	1.03	1.02
12.10	3.78	2.62	1.15	36.35	89.40	1.03	1.03	1.02
12.30	3.69	2.69	1.01	36.30	89.41	1.03	1.03	1.02
12.80	3.51	2.84	0.67	36.19	89.40	1.03	1.03	1.02
13.10	3.40	2.93	0.47	36.12	89.37	1.03	1.03	1.02
13.40	3.30	3.03	0.27	36.09	89.33	1.03	1.03	1.02
13.70	3.21	3.12	0.09	36.01	89.37	1.03	1.03	1.02
13.90	3.14	3.19	0.05	35.99	89.34	1.03	1.03	1.02
14.20	3.05	3.28	0.23	35.95	89.33	1.03	1.03	1.02
14.60	2.94	3.40	0.46	35.90	89.32	1.03	1.03	1.02
15.00	2.83	3.52	0.69	35.84	89.33	1.03	1.03	1.02
15.40	2.73	3.64	0.91	35.79	89.30	1.03	1.03	1.02
15.70	2.66	3.74	1.08	35.76	89.29	1.03	1.03	1.02
15.90	2.62	3.80	1.19	35.73	89.28	1.03	1.03	1.02
16.00	2.59	3.83	1.24	35.72	89.27	1.03	1.03	1.02

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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