Plug-In

Power Splitter/Combiner

PSCQ-2-13+

2 Way-90° 50Ω 12 to 14 MHz



CASE STYLE: A01

Maximum Ratings

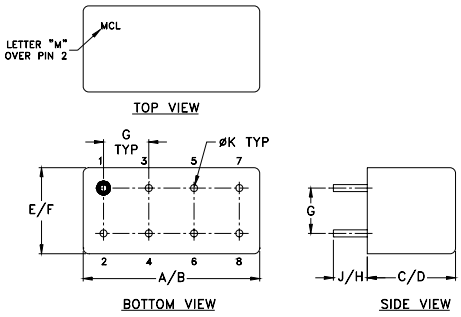
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.

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, 29 dB typ.
- excellent phase unbalance, 1 deg. typ.
- excellent VSWR, 1.10:1 typ.
- rugged shielded case

+RoHS Compliant

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

Applications

- modulators
- balanced amplifiers

Electrical Specifications

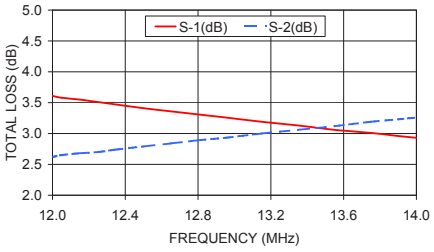
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) Avg. of Coupled Outputs ABOVE 3 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Max.
12-14	29	25	0.4	0.7	3	1.2

Typical Performance Data

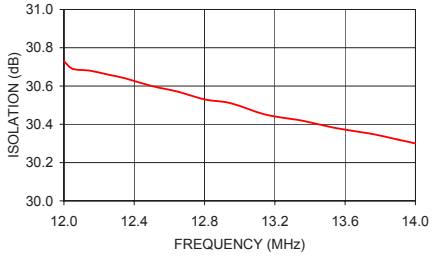
Frequency (MHz)	Total Loss[1] (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
12.00	3.61	2.62	0.98	30.73	89.61	1.07	1.08	1.08
12.05	3.58	2.65	0.94	30.69	89.60	1.07	1.08	1.08
12.15	3.55	2.68	0.87	30.68	89.63	1.07	1.08	1.08
12.25	3.51	2.70	0.80	30.66	89.64	1.07	1.08	1.08
12.35	3.47	2.74	0.73	30.64	89.59	1.07	1.08	1.08
12.50	3.41	2.79	0.63	30.60	89.63	1.07	1.08	1.08
12.65	3.36	2.84	0.53	30.57	89.63	1.07	1.08	1.08
12.80	3.31	2.89	0.43	30.53	89.60	1.07	1.08	1.08
12.95	3.26	2.93	0.33	30.51	89.61	1.07	1.08	1.08
13.15	3.19	3.00	0.20	30.45	89.63	1.07	1.08	1.08
13.35	3.13	3.06	0.07	30.42	89.69	1.07	1.08	1.08
13.55	3.06	3.12	0.06	30.38	89.64	1.07	1.08	1.08
13.75	3.01	3.19	0.18	30.35	89.65	1.07	1.08	1.08
13.90	2.96	3.23	0.27	30.32	89.63	1.07	1.08	1.08
14.00	2.93	3.26	0.33	30.30	89.64	1.07	1.08	1.08

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

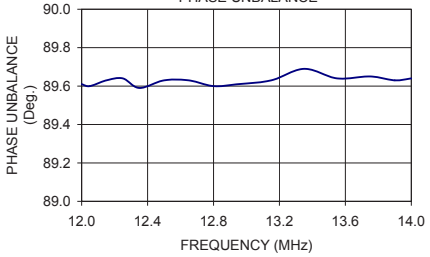
PSCQ-2-13+
TOTAL LOSS



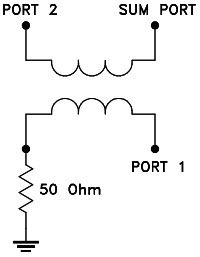
PSCQ-2-13+
ISOLATION



PSCQ-2-13+
PHASE UNBALANCE



electrical schematic



Notes

A. 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.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. 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