

Plug-In

Power Splitter/Combiner

PSCQ-2-13+

2 Way-90° 50Ω 12 to 14 MHz

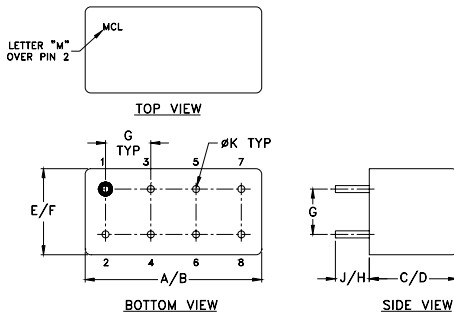
Maximum Ratings

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)

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

Applications

- modulators
- balanced amplifiers



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

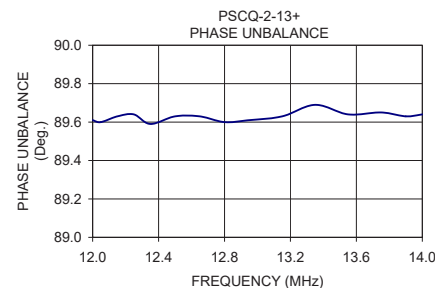
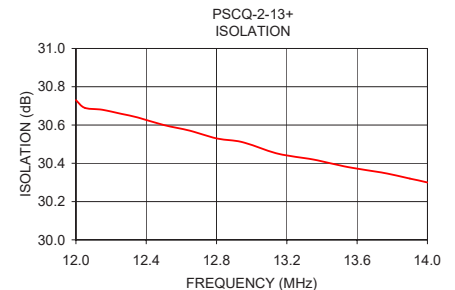
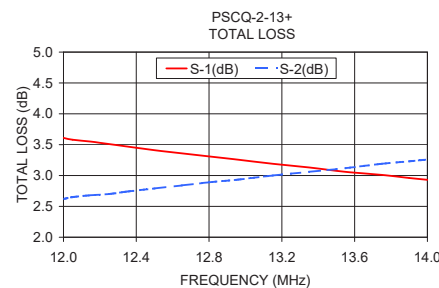
Electrical Specifications

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

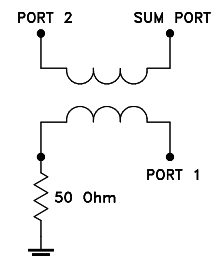
Typical Performance Data

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.



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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