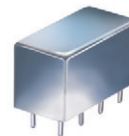


# Plug-In Power Splitter/Combiner

## PSCQ-2-13+ PSCQ-2-13

2 Way-90° 50Ω 12 to 14 MHz



CASE STYLE: A01  
PRICE: \$18.20 ea. QTY. (1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

### 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

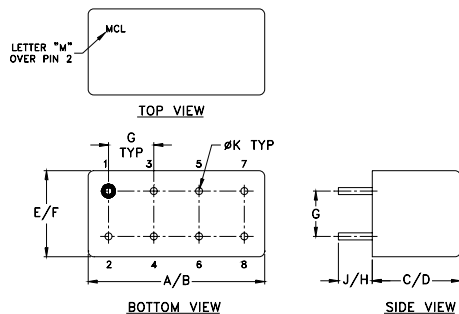
### Applications

- modulators
- balanced amplifiers

### Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) Avg. of Coupled Outputs less 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

### Outline Drawing

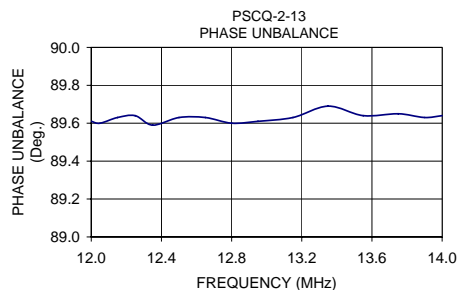
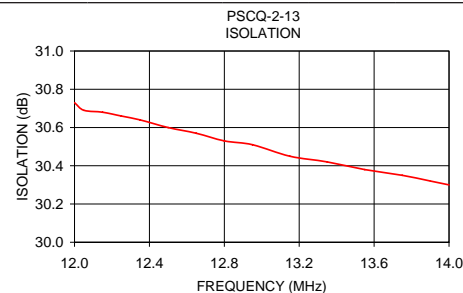
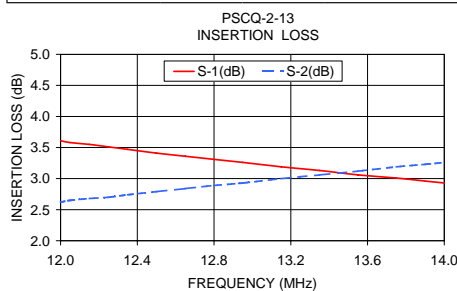


### Outline Dimensions (inch/mm)

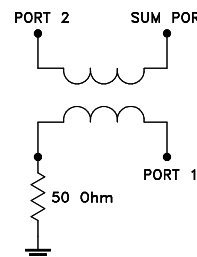
A	B	C	D	E	F	
.770	.800	.385	.400	.370	.400	
19.56	20.32	9.78	10.16	9.40	10.16	wt
G	H	J	K			grams
.200	.20	.14	.031			5.2
5.08	5.08	3.56	0.79			

### Typical Performance Data

Frequency (MHz)	Insertion Loss (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



### electrical schematic



For detailed performance specs & shopping online see web site

**Mini-Circuits®**  
ISO 9001 ISO 14001 AS 9100 CERTIFIED

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