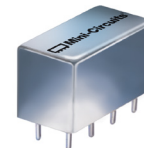


# Plug-In Power Splitter/Combiner

## PSCQ-2-450+ PSCQ-2-450

2 Way-90° 50Ω 350 to 450 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

### Features

- low insertion loss, 0.5 dB typ.
- rugged shielded case

### Applications

- modulators
- balanced amplifiers

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

### Electrical Specifications

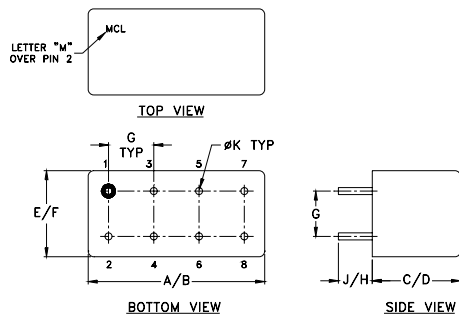
FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) Avg. of Coupled Outputs ABOVE 3 dB	PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)
$f_L$ - $f_U$	Typ. Min.	Typ. Max.	Max.	Max.
350-450	23 16	0.5 0.9	5	1.5

### Typical Performance Data

Frequency (MHz)	Total Loss <sup>1</sup> (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
350.00	3.04	3.68	0.64	28.39	91.46	1.17	1.13	1.12
352.50	3.04	3.68	0.64	28.25	91.54	1.17	1.13	1.12
357.50	3.05	3.71	0.66	27.99	91.70	1.17	1.13	1.12
362.50	3.05	3.73	0.68	27.72	91.78	1.18	1.13	1.12
367.50	3.05	3.75	0.70	27.45	91.86	1.18	1.13	1.12
375.00	3.02	3.74	0.72	27.04	91.81	1.19	1.14	1.13
382.50	3.00	3.69	0.68	26.57	91.81	1.19	1.14	1.13
390.00	2.98	3.63	0.65	26.11	91.96	1.20	1.14	1.14
397.50	2.99	3.61	0.61	25.68	92.12	1.20	1.15	1.14
405.00	3.02	3.61	0.59	25.26	92.33	1.21	1.15	1.15
415.00	3.10	3.61	0.51	24.72	92.40	1.22	1.15	1.16
425.00	3.21	3.61	0.40	24.17	92.48	1.23	1.16	1.17
435.00	3.35	3.59	0.24	23.63	92.68	1.24	1.17	1.18
445.00	3.49	3.58	0.08	23.08	93.06	1.25	1.18	1.19
450.00	3.55	3.56	0.02	22.79	93.26	1.26	1.18	1.20

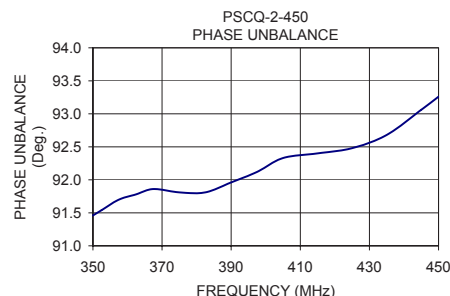
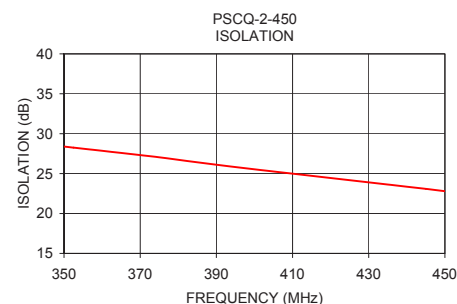
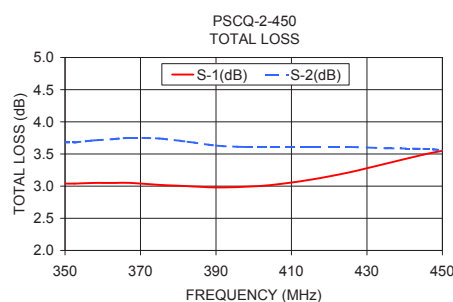
1. Total Loss = Insertion Loss + 3dB splitter loss.

### Outline Drawing

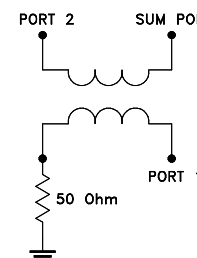


### Outline Dimensions (inch/mm)

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		



### 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](http://www.minicircuits.com/MCLStore/terms.jsp)

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