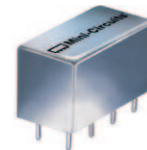


Plug-In

# Power Splitter/Combiner

PSCJ-2-1+

2 Way-180° 50Ω 1 to 200 MHz



CASE STYLE: A01  
PRICE: \$29.20 ea. QTY. (1-9)

+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.
Internal Dissipation	0.125W max.

Permanent damage may occur if any of these limits are exceeded.

## Pin Connections

SUM PORT	1
PORT 1	5
PORT 2	6
GROUND	2,3,4,7,8
CASE GROUND	2,3,4,7,8

## Features

- low insertion loss, 0.5 dB typ.
- high isolation, 35 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1 deg. typ.
- rugged shield case

## Applications

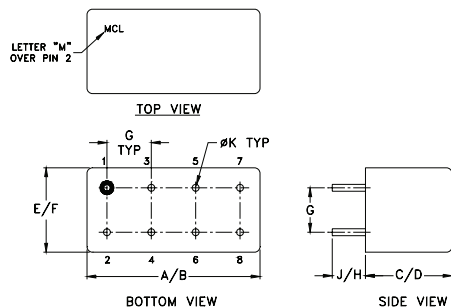
- VHF
- signal processing
- push-pull amplifiers

## Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
$f_L$ - $f_U$																		
1-200	35	30	35	25	30	23	0.75	1.0	0.5	0.8	0.75	1.2	2	2.5	4	0.3	0.15	0.3

L = low range [ $f_L$  to  $10 f_L$ ] M = mid range [ $10 f_L$  to  $f_U/2$ ] U = upper range [ $f_U/2$  to  $f_U$ ]

## Outline Drawing



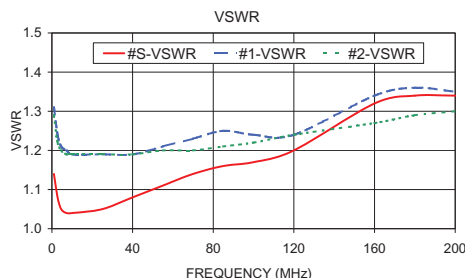
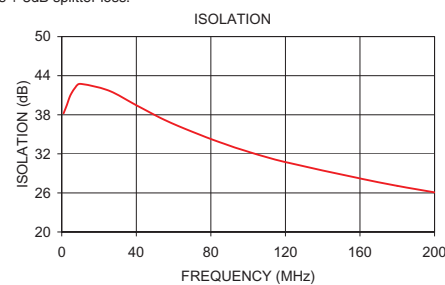
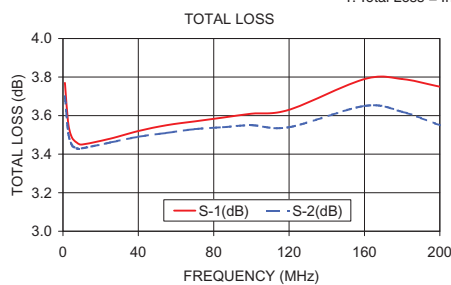
## Outline Dimensions (inch/mm)

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

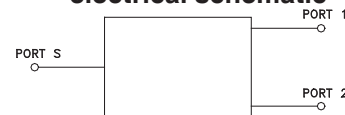
## Typical Performance Data

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						
1.00	3.77	3.70	0.07	38.23	179.69	1.14	1.31	1.29
2.80	3.56	3.51	0.05	39.52	179.74	1.08	1.24	1.22
4.60	3.49	3.45	0.03	40.98	179.84	1.05	1.21	1.20
7.30	3.46	3.43	0.03	42.20	180.11	1.04	1.20	1.19
10.00	3.45	3.43	0.02	42.75	180.01	1.04	1.19	1.19
25.00	3.48	3.46	0.02	41.74	179.72	1.05	1.19	1.19
40.00	3.52	3.49	0.03	39.46	179.46	1.08	1.19	1.19
55.00	3.55	3.51	0.04	37.24	179.22	1.11	1.21	1.20
70.00	3.57	3.53	0.04	35.39	179.03	1.14	1.23	1.20
85.00	3.59	3.54	0.05	33.76	178.85	1.16	1.25	1.21
100.00	3.61	3.55	0.06	32.33	178.59	1.17	1.24	1.22
120.00	3.63	3.54	0.09	30.73	178.37	1.20	1.24	1.24
160.00	3.79	3.65	0.15	28.22	177.87	1.32	1.34	1.27
180.00	3.79	3.62	0.17	27.09	177.67	1.34	1.36	1.29
200.00	3.75	3.55	0.20	26.08	177.40	1.34	1.35	1.30

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



## electrical schematic



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

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at [minicircuits.com](http://minicircuits.com)

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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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