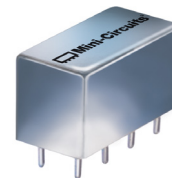


Plug-In

# Power Splitter/Combiner

PSC-4-6+

4 Way-0° 50Ω 0.01 to 40 MHz



CASE STYLE: A01

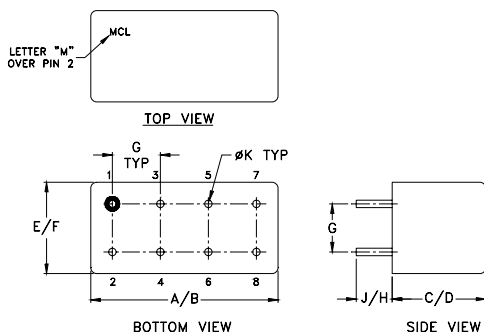
## Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.250W max.
Permanent damage may occur if any of these limits are exceeded.	

## Pin Connections

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

## 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, 0.3 dB typ.
- good isolation, 32 dB typ.
- rugged welded construction

## Applications

- HF
- ham radio
- instrumentation

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

## Electrical Specifications

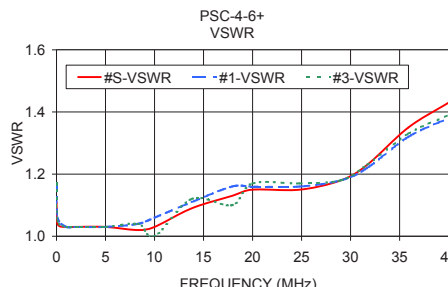
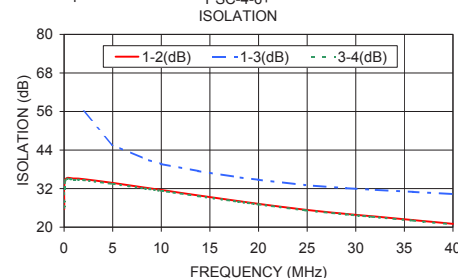
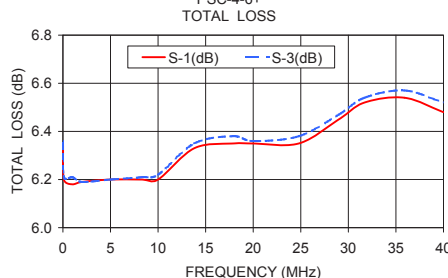
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 6.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
$f_L$ - $f_U$	35	18	32	25	25	18	0.4	0.8	0.3	0.5	0.5	1.0	2	2	2	0.1	0.15	0.2

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  $f_U$ ]

## Typical Performance Data

Freq. (MHz)	Total Loss <sup>1</sup> (dB)				Amp. Unbal. (dB)	Isolation (dB)			VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	1-3	3-4					
0.01	6.35	6.40	6.36	6.36	0.05	25.59	56.00	26.01	1.11	1.17	1.17	1.17	1.16
0.10	6.20	6.20	6.21	6.19	0.02	34.62	56.00	34.42	1.04	1.06	1.05	1.05	1.05
1.00	6.18	6.18	6.21	6.19	0.03	35.15	56.00	34.80	1.03	1.03	1.03	1.03	1.03
2.00	6.19	6.19	6.19	6.17	0.02	34.95	56.00	34.64	1.03	1.03	1.03	1.03	1.03
5.00	6.20	6.18	6.20	6.19	0.02	33.78	45.61	33.47	1.03	1.03	1.03	1.03	1.03
8.30	6.20	6.20	6.21	6.20	0.01	32.32	41.23	32.04	1.02	1.04	1.04	1.04	1.04
10.00	6.20	6.22	6.22	6.21	0.02	31.58	39.66	31.30	1.03	1.06	1.00	1.00	1.06
13.80	6.33	6.32	6.35	6.32	0.03	29.88	37.45	29.65	1.09	1.11	1.11	1.12	1.12
17.90	6.35	6.36	6.38	6.37	0.03	28.13	35.54	27.94	1.13	1.16	1.10	1.10	1.16
20.00	6.35	6.33	6.36	6.36	0.03	27.27	34.74	27.08	1.15	1.16	1.17	1.17	1.17
24.80	6.35	6.33	6.38	6.36	0.05	25.43	33.08	25.28	1.15	1.16	1.17	1.17	1.17
29.00	6.45	6.43	6.47	6.49	0.06	24.13	32.14	23.97	1.18	1.18	1.18	1.18	1.18
31.70	6.52	6.51	6.54	6.53	0.03	23.38	31.67	23.22	1.23	1.22	1.23	1.23	1.23
35.90	6.54	6.51	6.57	6.56	0.08	22.21	30.99	22.05	1.35	1.32	1.32	1.33	1.33
40.00	6.48	6.50	6.52	6.51	0.04	21.02	30.30	20.86	1.43	1.38	1.39	1.39	1.39

1. Total Loss = Insertion Loss + 6dB 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.
- 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)

