

Plug-In

# Power Splitter/Combiner

PSC-2-5+

2 Way-0° 50Ω 10 to 1400 MHz



CASE STYLE: A01

## Maximum Ratings

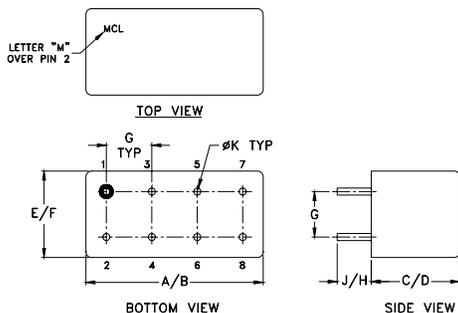
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

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

## 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

- wideband, 10 to 1400 MHz
- low insertion loss, 0.6 dB typ.
- rugged welded constructions

## Applications

- cellular
- VHF/UHF
- GPS
- defense & federal communications

**+RoHS Compliant**

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

## Electrical Specifications

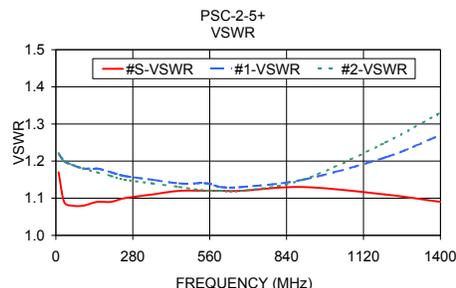
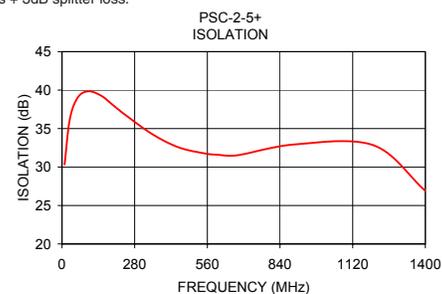
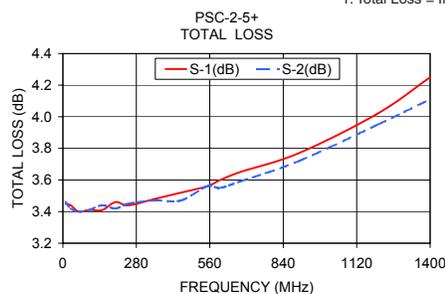
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 3.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
	Typ.	Min	Typ.	Min	Typ.	Min	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
10-1400	28	18	22	17	24	17	0.3	0.6	0.6	1.0	0.9	1.6	2.0	3.0	4.0	0.15	0.2	0.4

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

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						
10.00	3.45	3.46	0.01	30.32	0.11	1.17	1.22	1.22
30.00	3.44	3.42	0.03	36.20	0.16	1.09	1.20	1.20
60.00	3.40	3.40	0.01	38.99	0.21	1.08	1.19	1.19
100.00	3.41	3.41	0.01	39.84	0.03	1.08	1.18	1.18
150.00	3.41	3.44	0.03	39.30	0.23	1.09	1.18	1.17
200.00	3.46	3.42	0.04	37.96	0.25	1.09	1.17	1.16
250.00	3.44	3.45	0.01	36.62	0.03	1.10	1.16	1.15
350.00	3.48	3.47	0.01	34.23	0.21	1.11	1.15	1.14
450.00	3.52	3.47	0.05	32.55	0.67	1.12	1.14	1.13
550.00	3.56	3.56	0.00	31.77	0.60	1.12	1.14	1.12
600.00	3.60	3.55	0.05	31.60	0.58	1.12	1.13	1.12
675.00	3.65	3.59	0.06	31.53	0.52	1.12	1.13	1.12
900.00	3.77	3.72	0.06	32.95	0.83	1.13	1.15	1.15
1200.00	4.02	3.95	0.07	32.83	0.56	1.11	1.21	1.25
1400.00	4.25	4.11	0.14	26.89	0.75	1.09	1.27	1.33

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



## 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.
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