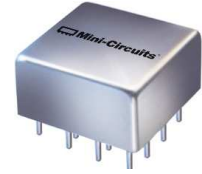


Plug-In

# Power Splitter/Combiner

5 Way-0° 50Ω 1 to 300 MHz

**PSC-5-1+**  
**PSC-5-1**



CASE STYLE: C07  
PRICE: \$69.95 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	0.5W max.
Permanent damage may occur if any of these limits are exceeded.	

## Pin Connections

SUM PORT	1
PORT 1	4
PORT 2	8
PORT 3	12
PORT 4	16
PORT 5	15
GROUND	2,5,7,11,13,14
CASE GROUND	2,5,7,11,13,14
NOT USED	3,6,9,10

## Features

- low insertion loss, 0.6 dB typ.
- good isolation, 23 typ.
- rugged welded case

## Applications

- UHF
- signal processing
- instrumentation

## Electrical Specifications

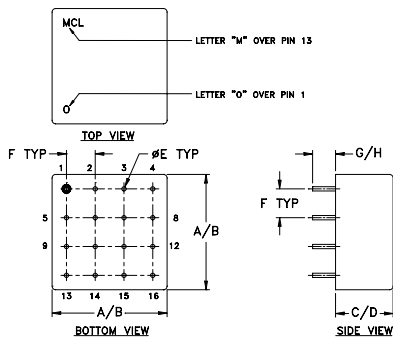
FREQ. RANGE (MHz)	ISOLATION (dB)						INSERTION LOSS (dB) ABOVE 7.0 dB						PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)		
	L		M		U		L		M		U		L	M	U	L	M	U
	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
f <sub>L</sub> -f <sub>U</sub>																		
1-300	25	20	23	18	20	17	0.2	0.5	0.6	1.0	1.5	2.0	2	4	8	0.2	0.3	0.6

L = low range [f<sub>L</sub> to 10 f<sub>L</sub>] M = mid range [10 f<sub>L</sub> to f<sub>U</sub>/2] U = upper range [f<sub>U</sub>/2 to f<sub>U</sub>]

## Typical Performance Data

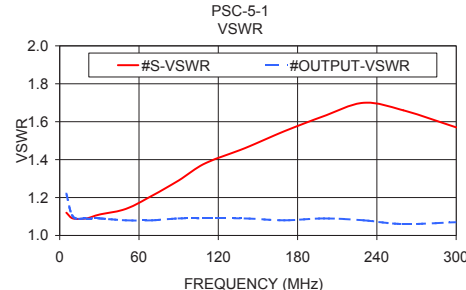
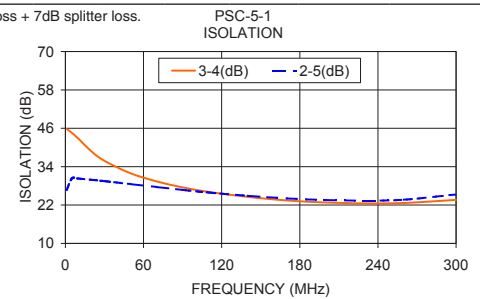
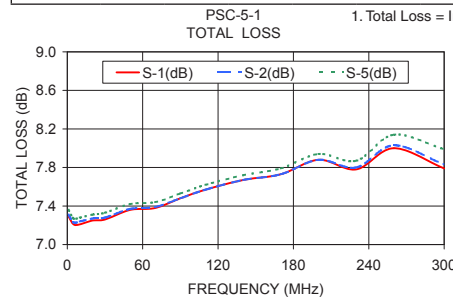
Freq. (MHz)	Total Loss <sup>1</sup> (dB)					Amp. Unbal. (dB)	Isolation (dB)				Phase Unbal. (deg.)	VSWR S	VSWR OUTPUTS
	S-1	S-2	S-3	S-4	S-5		1-2	2-3	3-4	2-5			
1.00	7.29	7.31	7.40	7.39	7.36	0.11	52.12	42.15	45.77	26.71	0.16	1.12	1.22
5.00	7.21	7.23	7.32	7.30	7.27	0.11	45.47	49.28	44.56	30.29	0.06	1.09	1.10
10.00	7.21	7.24	7.32	7.31	7.28	0.11	43.00	44.84	42.73	30.28	0.12	1.09	1.09
20.00	7.25	7.27	7.35	7.34	7.31	0.10	39.16	40.15	38.78	29.90	0.34	1.11	1.09
30.00	7.26	7.28	7.36	7.35	7.33	0.10	36.36	37.20	35.83	29.48	0.58	1.14	1.08
50.00	7.36	7.37	7.45	7.44	7.42	0.09	32.53	33.29	31.94	28.57	0.96	1.21	1.08
70.00	7.38	7.39	7.45	7.44	7.44	0.07	29.99	30.72	29.40	27.64	1.32	1.29	1.09
90.00	7.48	7.48	7.53	7.52	7.53	0.05	28.13	28.87	27.51	26.73	1.67	1.38	1.09
110.00	7.57	7.57	7.60	7.59	7.62	0.05	26.73	27.44	26.11	25.91	1.97	1.46	1.09
140.00	7.67	7.67	7.68	7.69	7.72	0.05	25.18	25.88	24.55	24.88	2.27	1.55	1.08
170.00	7.73	7.73	7.71	7.73	7.79	0.08	24.10	24.85	23.44	24.07	2.73	1.63	1.09
200.00	7.88	7.88	7.85	7.86	7.94	0.09	23.49	24.26	22.80	23.57	3.03	1.70	1.08
230.00	7.78	7.80	7.75	7.78	7.87	0.12	23.27	24.06	22.52	23.39	3.33	1.66	1.06
260.00	8.00	8.03	7.96	8.00	8.14	0.18	23.55	24.38	22.66	23.67	3.69	1.57	1.07
300.00	7.79	7.83	7.76	7.81	7.99	0.23	24.87	26.03	23.61	25.29	4.34	1.36	1.06

## Outline Drawing



## Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	wt
.770	.810	.380	.410	.030	.200	.20	.14	grams
19.56	20.57	9.65	10.41	0.76	5.08	5.08	3.56	11.0



## electrical schematic



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)

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