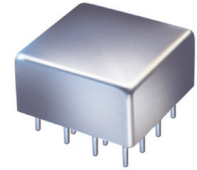


Plug-In

# Power Splitter/Combiner

**PSC-4A-4+  
PSC-4A-4**

4 Way-0° 50Ω 10 to 1000 MHz



CASE STYLE: C07  
PRICE: \$68.95 ea. QTY. (1-9)

**+ RoHS compliant in accordance with EU Directive (2002/95/EC)**

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	0.250W max.
Permanent damage may occur if any of these limits are exceeded.	

## Pin Connections

SUM PORT	2
PORT 1	8
PORT 2	12
PORT 3	5
PORT 4	9
GROUND	1,3,4,6,7,10,11,13,14,15,16
CASE GROUND	1,3,4,6,7,10,11,13,14,15,16

## Features

- wideband, 10 to 1000 MHz
- low insertion loss, 0.8 dB typ.
- good isolation, 25 dB typ.
- rugged welded construction

## Applications

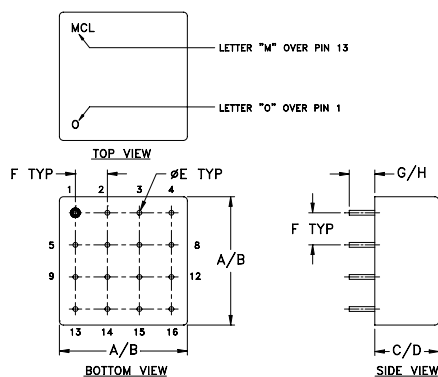
- cellular
- VHF/UHF
- communication systems

## 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.	Typ.	Max.				
$f_L$ - $f_U$																		
10-1000	25	20	21	15	18	15	0.5	0.8	0.8	1.8	1.5	2.5	4	16	20	0.2	0.5	0.7

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

## Outline Drawing

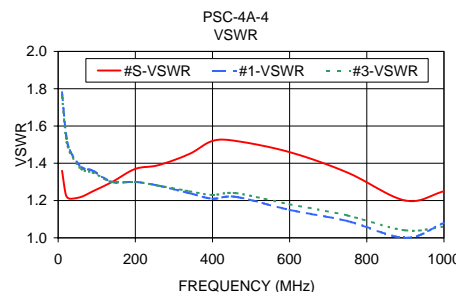
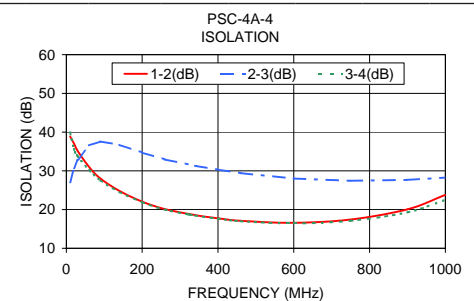
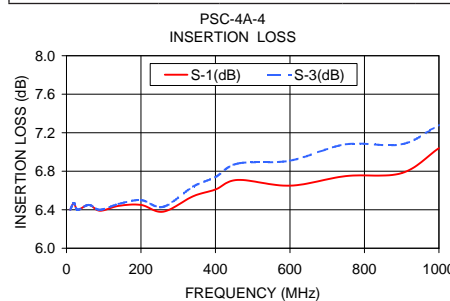


## Outline Dimensions (inch/mm)

A	B	C	D	E	F	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

## Typical Performance Data

Freq. (MHz)	Insertion Loss (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	2-3	3-4						
10.00	6.40	6.41	6.40	6.40	0.01	38.87	27.06	39.90	0.11	1.36	1.78	1.78	1.76	1.76
20.00	6.47	6.47	6.47	6.47	0.01	37.06	30.68	35.60	0.23	1.23	1.56	1.56	1.54	1.54
30.00	6.40	6.39	6.40	6.40	0.01	35.11	32.85	33.75	0.48	1.21	1.47	1.47	1.46	1.46
60.00	6.45	6.45	6.45	6.45	0.01	31.00	36.56	30.22	0.46	1.22	1.38	1.38	1.37	1.37
90.00	6.39	6.38	6.40	6.39	0.02	28.02	37.57	27.51	0.41	1.25	1.36	1.36	1.35	1.35
140.00	6.44	6.43	6.46	6.45	0.03	24.82	36.73	24.52	0.27	1.30	1.30	1.30	1.30	1.30
200.00	6.45	6.44	6.50	6.49	0.06	22.05	34.72	21.86	0.21	1.37	1.30	1.30	1.30	1.30
260.00	6.38	6.36	6.43	6.42	0.08	20.12	32.93	19.96	0.96	1.39	1.28	1.28	1.28	1.28
340.00	6.54	6.51	6.64	6.60	0.13	18.57	31.30	18.44	0.74	1.45	1.24	1.25	1.25	1.25
400.00	6.61	6.57	6.74	6.69	0.17	17.75	30.32	17.63	0.83	1.52	1.21	1.22	1.23	1.23
460.00	6.71	6.67	6.88	6.82	0.22	17.10	29.42	16.98	0.49	1.52	1.22	1.23	1.24	1.24
600.00	6.65	6.57	6.91	6.81	0.34	16.58	28.02	16.42	1.02	1.46	1.15	1.16	1.18	1.18
750.00	6.75	6.64	7.08	6.96	0.44	17.44	27.43	17.11	2.40	1.35	1.09	1.09	1.12	1.12
900.00	6.78	6.63	7.08	6.99	0.45	20.07	27.67	19.30	3.84	1.20	1.00	1.01	1.04	1.03
1000.00	7.04	6.86	7.28	7.25	0.43	23.78	28.26	22.48	4.74	1.25	1.08	1.08	1.06	1.05



## electrical schematic



**Mini-Circuits®**  
ISO 9001 ISO 14001 AS 9100 CERTIFIED  
IFIRF MICROWAVE COMPONENTS

For detailed performance specs & shipping online see web site

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).

REV. A  
M98898  
PSC-4A-4  
HY/TD/CP/AM  
090827