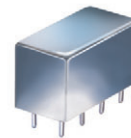


Plug-In

# Power Splitter/Combiner

2 Way-0° 75Ω 0.008 to 60 MHz

PSC-2-2-75+  
PSC-2-2-75



CASE STYLE: A01  
PRICE: \$28.20 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

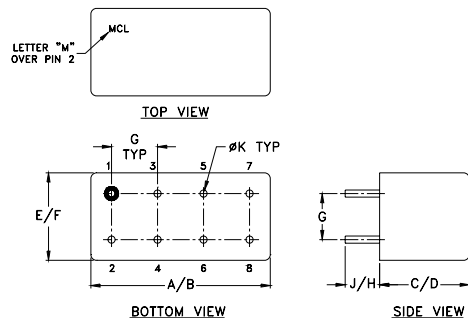
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

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/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, 0.15 dB typ.
- high isolation, 40 dB typ.
- rugged welded construction

## Applications

- HF/VHF
- amateur radio
- communications systems

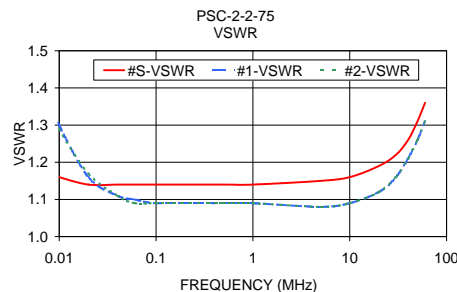
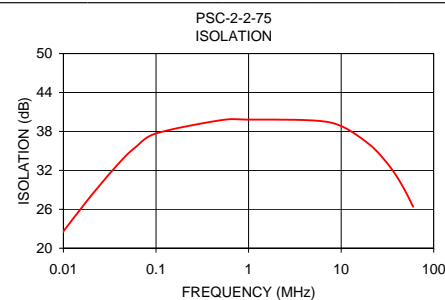
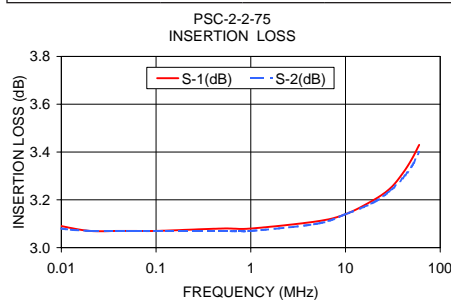
## Electrical Specifications

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.
0.008-60	35	18	40	25	30	22	0.1	0.4	0.15	0.4	0.3	0.8	1.0	1.0	1.0	0.15	0.15	0.15

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  $f_U$ ]  
At low range frequency band, [ $f_L$  to  $10 f_L$ ], linearly derate maximum input power by 13 dB.

## Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
0.008	3.10	3.10	0.01	20.91	0.02	1.17	1.37	1.37
0.010	3.09	3.08	0.01	22.62	0.05	1.16	1.30	1.29
0.020	3.07	3.07	0.00	28.12	0.02	1.14	1.16	1.17
0.040	3.07	3.07	0.00	33.16	0.01	1.14	1.11	1.11
0.060	3.07	3.07	0.00	35.56	0.02	1.14	1.10	1.09
0.100	3.07	3.07	0.00	37.69	0.02	1.14	1.09	1.09
0.500	3.08	3.07	0.01	39.73	0.01	1.14	1.09	1.09
1.000	3.08	3.07	0.00	39.82	0.01	1.14	1.09	1.09
5.000	3.11	3.10	0.01	39.69	0.01	1.15	1.08	1.08
10.000	3.14	3.14	0.00	38.83	0.01	1.16	1.09	1.09
20.000	3.20	3.19	0.01	36.05	0.01	1.19	1.12	1.12
30.000	3.25	3.24	0.01	33.46	0.01	1.22	1.16	1.16
40.000	3.31	3.29	0.02	31.04	0.02	1.26	1.21	1.21
50.000	3.37	3.34	0.03	28.63	0.01	1.31	1.26	1.26
60.000	3.43	3.40	0.03	26.39	0.03	1.36	1.31	1.31



## electrical schematic



**Mini-Circuits**  
ISO 9001 ISO 14001 AS 9100 CERTIFIED  
The Design Engineers Search Engine Provides ACTUAL Data Instantly at [minicircuits.com](http://minicircuits.com)  
IFIRF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

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. B  
M110513  
PSC-2-2-75  
HY/TD/CP  
070319