

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.

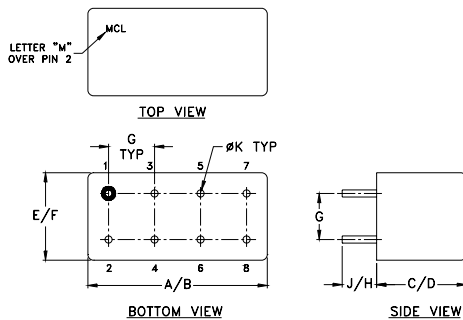
## Maximum Ratings

|                             |                |
|-----------------------------|----------------|
| 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.    |

## Pin Connections

|             |           |
|-------------|-----------|
| SUMPORT     | 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

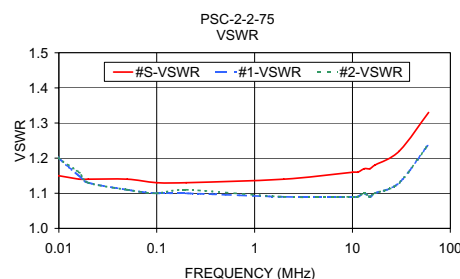
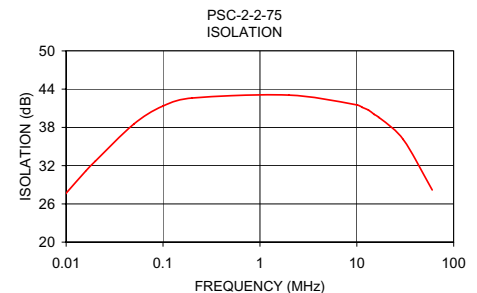
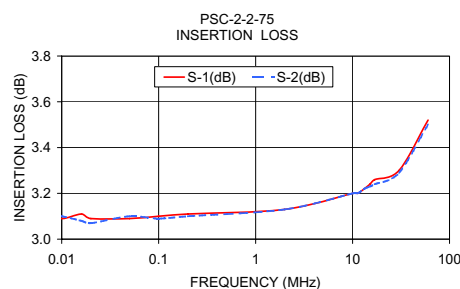
## Splitter Electrical Specifications

| FREQ.<br>RANGE<br>(MHz)        | ISOLATION<br>(dB) |     |      |     |      |     | INSERTION LOSS (dB)<br>ABOVE 3.0 dB |      |      |      |      |      | PHASE<br>UNBALANCE<br>(Degrees) |      |      | AMPLITUDE<br>UNBALANCE<br>(dB) |      |      |
|--------------------------------|-------------------|-----|------|-----|------|-----|-------------------------------------|------|------|------|------|------|---------------------------------|------|------|--------------------------------|------|------|
|                                | 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> |                   |     |      |     |      |     |                                     |      |      |      |      |      |                                 |      |      |                                |      |      |
| 0.008-60                       | 35                | 20  | 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 |

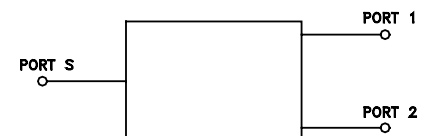
L = low range [f<sub>L</sub> to 10 f<sub>L</sub>] M = mid range [10 f<sub>L</sub> to f<sub>U</sub>/2] U = upper range [f<sub>U</sub>/2 to f<sub>U</sub>]  
At low range frequency band, [f<sub>L</sub> to 10 f<sub>L</sub>], linearly derate maximum input power by 13 dB.

## Typical Performance Data

| Frequency<br>(MHz) | Insertion Loss<br>(dB) |      | Amplitude<br>Unbalance<br>(dB) | Isolation<br>(dB) | Phase<br>Unbalance<br>(deg.) | VSWR<br>S | VSWR<br>1 | VSWR<br>2 |
|--------------------|------------------------|------|--------------------------------|-------------------|------------------------------|-----------|-----------|-----------|
|                    | S-1                    | S-2  |                                |                   |                              |           |           |           |
| 0.008              | 3.12                   | 3.10 | 0.02                           | 25.97             | 0.01                         | 1.15      | 1.23      | 1.24      |
| 0.010              | 3.09                   | 3.10 | 0.01                           | 27.68             | 0.00                         | 1.15      | 1.20      | 1.20      |
| 0.016              | 3.11                   | 3.08 | 0.03                           | 31.19             | 0.00                         | 1.14      | 1.15      | 1.16      |
| 0.020              | 3.09                   | 3.07 | 0.02                           | 32.70             | 0.01                         | 1.14      | 1.13      | 1.13      |
| 0.050              | 3.09                   | 3.10 | 0.01                           | 38.53             | 0.02                         | 1.14      | 1.11      | 1.11      |
| 0.100              | 3.10                   | 3.09 | 0.01                           | 41.36             | 0.05                         | 1.13      | 1.10      | 1.10      |
| 0.200              | 3.11                   | 3.10 | 0.01                           | 42.61             | 0.04                         | 1.13      | 1.10      | 1.11      |
| 1.987              | 3.13                   | 3.13 | 0.00                           | 43.07             | 0.02                         | 1.14      | 1.09      | 1.09      |
| 10.070             | 3.20                   | 3.20 | 0.00                           | 41.52             | 0.01                         | 1.16      | 1.09      | 1.09      |
| 11.330             | 3.20                   | 3.20 | 0.00                           | 41.15             | 0.01                         | 1.16      | 1.09      | 1.09      |
| 13.220             | 3.22                   | 3.22 | 0.00                           | 40.71             | 0.01                         | 1.17      | 1.10      | 1.10      |
| 15.110             | 3.24                   | 3.23 | 0.01                           | 40.04             | 0.02                         | 1.17      | 1.09      | 1.09      |
| 16.920             | 3.26                   | 3.24 | 0.01                           | 39.56             | 0.02                         | 1.18      | 1.10      | 1.10      |
| 30.110             | 3.30                   | 3.29 | 0.01                           | 36.11             | 0.03                         | 1.22      | 1.13      | 1.13      |
| 60.000             | 3.52                   | 3.50 | 0.02                           | 28.19             | 0.03                         | 1.33      | 1.24      | 1.24      |



## electrical schematic



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