

# 3 Way-0° Power Splitter/Combiner

LRPS-ED4257/1

## Typical Performance Data

| FREQ.<br>(MHz) | TOTAL LOSS <sup>1</sup><br>(dB) |      |      | AMP.<br>UNBAL.<br>(dB) | ISOLATION<br>(dB) |       | PHASE<br>UNBAL.<br>(deg.) | FREQ.<br>(MHz) | VSWR<br>(:1) |      |      |      |
|----------------|---------------------------------|------|------|------------------------|-------------------|-------|---------------------------|----------------|--------------|------|------|------|
|                | S-1                             | S-2  | S-3  |                        | 1-2               | 2-3   |                           |                | S            | 1    | 2    | 3    |
| 5.0            | 5.12                            | 5.13 | 5.14 | 0.01                   | 22.39             | 17.19 | 0.08                      | 5.0            | 1.43         | 1.79 | 1.78 | 2.01 |
| 6.0            | 5.14                            | 5.16 | 5.16 | 0.02                   | 23.19             | 18.28 | 0.02                      | 6.0            | 1.39         | 1.62 | 1.62 | 1.79 |
| 7.0            | 5.17                            | 5.18 | 5.19 | 0.02                   | 23.66             | 19.05 | 0.10                      | 7.0            | 1.37         | 1.52 | 1.52 | 1.66 |
| 8.0            | 5.18                            | 5.20 | 5.20 | 0.02                   | 23.99             | 19.61 | 0.10                      | 8.0            | 1.36         | 1.46 | 1.45 | 1.58 |
| 9.0            | 5.19                            | 5.19 | 5.21 | 0.02                   | 24.23             | 20.04 | 0.09                      | 9.0            | 1.35         | 1.41 | 1.41 | 1.52 |
| 10.0           | 5.20                            | 5.22 | 5.20 | 0.02                   | 24.42             | 20.38 | 0.05                      | 10.0           | 1.34         | 1.38 | 1.38 | 1.48 |
| 30.0           | 5.21                            | 5.22 | 5.22 | 0.01                   | 25.62             | 22.53 | 0.22                      | 30.0           | 1.28         | 1.18 | 1.17 | 1.22 |
| 50.0           | 5.20                            | 5.22 | 5.22 | 0.02                   | 25.81             | 22.97 | 0.32                      | 50.0           | 1.26         | 1.13 | 1.13 | 1.16 |
| 131.3          | 5.27                            | 5.29 | 5.28 | 0.02                   | 25.77             | 22.95 | 0.69                      | 131.3          | 1.24         | 1.08 | 1.07 | 1.09 |
| 212.5          | 5.32                            | 5.35 | 5.31 | 0.04                   | 25.76             | 22.49 | 1.00                      | 212.5          | 1.23         | 1.07 | 1.05 | 1.06 |
| 293.8          | 5.40                            | 5.42 | 5.36 | 0.06                   | 25.91             | 22.05 | 1.31                      | 293.8          | 1.23         | 1.06 | 1.04 | 1.04 |
| 375.0          | 5.45                            | 5.46 | 5.37 | 0.08                   | 26.20             | 21.71 | 1.57                      | 375.0          | 1.23         | 1.07 | 1.04 | 1.02 |
| 400.0          | 5.48                            | 5.48 | 5.39 | 0.09                   | 26.35             | 21.64 | 1.67                      | 400.0          | 1.23         | 1.07 | 1.04 | 1.02 |
| 516.7          | 5.59                            | 5.56 | 5.42 | 0.17                   | 27.50             | 21.58 | 1.97                      | 516.7          | 1.22         | 1.08 | 1.06 | 1.02 |
| 633.3          | 5.71                            | 5.61 | 5.42 | 0.29                   | 30.06             | 22.14 | 2.10                      | 633.3          | 1.18         | 1.09 | 1.08 | 1.05 |
| 750.0          | 5.86                            | 5.71 | 5.40 | 0.46                   | 32.62             | 23.70 | 2.17                      | 750.0          | 1.10         | 1.08 | 1.09 | 1.08 |
| 790.0          | 5.94                            | 5.75 | 5.40 | 0.55                   | 30.66             | 24.48 | 2.09                      | 790.0          | 1.06         | 1.07 | 1.09 | 1.09 |
| 830.0          | 6.05                            | 5.79 | 5.39 | 0.66                   | 27.61             | 25.15 | 2.06                      | 830.0          | 1.02         | 1.06 | 1.09 | 1.10 |
| 870.0          | 6.17                            | 5.90 | 5.44 | 0.73                   | 24.49             | 25.26 | 2.36                      | 870.0          | 1.07         | 1.04 | 1.08 | 1.12 |
| 910.0          | 6.34                            | 6.05 | 5.52 | 0.82                   | 21.60             | 24.11 | 2.84                      | 910.0          | 1.16         | 1.02 | 1.08 | 1.13 |

<sup>1</sup> Total Loss = Insertion Loss + 4.8dB Splitter Loss

REV. X2

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