

# 12 Way-0° Power Splitter/Combiner

JEPS-ED7680

## Typical Performance Data

| FREQ.<br>(MHz) | TOTAL<br>LOSS <sup>1</sup><br>(dB)<br>S-1 | AMP.<br>UNBAL.<br>(dB) | ISOLATION<br>(dB) |       | PHASE<br>UNBAL.<br>(deg.) | FREQ.<br>(MHz) | VSWR<br>(:1) |      |
|----------------|-------------------------------------------|------------------------|-------------------|-------|---------------------------|----------------|--------------|------|
|                |                                           |                        | 1-2               | 3-4   |                           |                | S            | 4    |
| 10.0           | 12.30                                     | 0.17                   | 30.69             | 29.51 | 2.39                      | 10.0           | 1.66         | 1.61 |
| 30.0           | 11.98                                     | 0.13                   | 35.28             | 34.80 | 0.88                      | 30.0           | 1.27         | 1.30 |
| 40.0           | 11.93                                     | 0.14                   | 34.57             | 34.21 | 0.58                      | 40.0           | 1.21         | 1.26 |
| 50.0           | 11.92                                     | 0.15                   | 33.34             | 33.13 | 0.65                      | 50.0           | 1.17         | 1.23 |
| 75.0           | 11.93                                     | 0.13                   | 30.27             | 30.30 | 0.99                      | 75.0           | 1.14         | 1.20 |
| 100.0          | 11.95                                     | 0.13                   | 27.92             | 28.16 | 1.25                      | 100.0          | 1.15         | 1.18 |
| 130.0          | 12.02                                     | 0.15                   | 25.83             | 26.20 | 1.57                      | 130.0          | 1.19         | 1.17 |
| 160.0          | 12.09                                     | 0.15                   | 24.26             | 24.90 | 1.96                      | 160.0          | 1.24         | 1.16 |
| 190.0          | 12.19                                     | 0.20                   | 23.06             | 24.11 | 2.25                      | 190.0          | 1.29         | 1.15 |
| 220.0          | 12.24                                     | 0.25                   | 22.16             | 23.93 | 2.54                      | 220.0          | 1.32         | 1.15 |
| 250.0          | 12.31                                     | 0.26                   | 21.42             | 23.83 | 2.72                      | 250.0          | 1.34         | 1.15 |
| 280.0          | 12.41                                     | 0.31                   | 20.91             | 23.58 | 2.72                      | 280.0          | 1.36         | 1.14 |
| 310.0          | 12.42                                     | 0.32                   | 20.52             | 22.96 | 3.12                      | 310.0          | 1.35         | 1.14 |
| 340.0          | 12.47                                     | 0.35                   | 20.25             | 21.84 | 3.28                      | 340.0          | 1.34         | 1.14 |
| 370.0          | 12.51                                     | 0.34                   | 20.14             | 21.97 | 3.41                      | 370.0          | 1.33         | 1.14 |
| 400.0          | 12.50                                     | 0.34                   | 20.10             | 21.43 | 3.55                      | 400.0          | 1.30         | 1.14 |
| 430.0          | 12.53                                     | 0.36                   | 20.17             | 21.17 | 3.68                      | 430.0          | 1.27         | 1.14 |
| 460.0          | 12.53                                     | 0.36                   | 20.33             | 21.12 | 3.84                      | 460.0          | 1.24         | 1.13 |
| 490.0          | 12.54                                     | 0.37                   | 20.56             | 21.17 | 3.86                      | 490.0          | 1.22         | 1.13 |
| 520.0          | 12.52                                     | 0.37                   | 20.85             | 21.32 | 4.04                      | 520.0          | 1.20         | 1.13 |
| 550.0          | 12.54                                     | 0.36                   | 21.17             | 21.52 | 4.25                      | 550.0          | 1.19         | 1.12 |
| 580.0          | 12.55                                     | 0.35                   | 21.52             | 21.72 | 4.36                      | 580.0          | 1.20         | 1.12 |
| 610.0          | 12.55                                     | 0.34                   | 21.86             | 21.82 | 4.66                      | 610.0          | 1.22         | 1.12 |
| 640.0          | 12.58                                     | 0.33                   | 22.20             | 21.76 | 4.91                      | 640.0          | 1.24         | 1.11 |
| 670.0          | 12.62                                     | 0.31                   | 22.50             | 21.64 | 5.33                      | 670.0          | 1.27         | 1.11 |
| 700.0          | 12.66                                     | 0.31                   | 22.77             | 21.48 | 5.65                      | 700.0          | 1.29         | 1.11 |
| 730.0          | 12.70                                     | 0.31                   | 23.01             | 21.29 | 5.82                      | 730.0          | 1.30         | 1.10 |
| 760.0          | 12.76                                     | 0.35                   | 23.19             | 21.13 | 6.05                      | 760.0          | 1.30         | 1.10 |
| 790.0          | 12.77                                     | 0.40                   | 23.33             | 20.93 | 6.24                      | 790.0          | 1.29         | 1.09 |
| 820.0          | 12.85                                     | 0.45                   | 23.40             | 20.70 | 6.71                      | 820.0          | 1.26         | 1.09 |
| 850.0          | 12.87                                     | 0.51                   | 23.34             | 20.50 | 7.09                      | 850.0          | 1.22         | 1.08 |
| 880.0          | 12.90                                     | 0.56                   | 23.12             | 20.20 | 7.44                      | 880.0          | 1.16         | 1.08 |
| 910.0          | 12.98                                     | 0.63                   | 22.69             | 19.83 | 7.87                      | 910.0          | 1.11         | 1.07 |
| 940.0          | 13.06                                     | 0.70                   | 22.02             | 19.43 | 8.27                      | 940.0          | 1.12         | 1.06 |
| 970.0          | 13.20                                     | 0.78                   | 21.15             | 18.92 | 8.62                      | 970.0          | 1.20         | 1.05 |
| 1000.0         | 13.42                                     | 0.85                   | 20.13             | 18.28 | 8.95                      | 1000.0         | 1.33         | 1.03 |

<sup>1</sup> Total Loss = Insertion Loss + 10.8dB Splitter Loss

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