

# 3 Way-0° Power Splitter/Combiner

AD3PS-ED11087/1

## 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               | 1-3   | 2-3   |                           |                | S            | 1    | 2    | 3    |
| 0.5            | 5.78                            | 5.78 | 5.77 | 0.01                   | 32.88             | 31.11 | 32.72 | 0.02                      | 0.5            | 1.38         | 1.34 | 1.36 | 1.34 |
| 0.9            | 5.59                            | 5.59 | 5.59 | 0.01                   | 33.63             | 32.34 | 33.57 | 0.03                      | 0.9            | 1.25         | 1.25 | 1.26 | 1.25 |
| 1.0            | 5.57                            | 5.56 | 5.56 | 0.01                   | 33.75             | 32.53 | 33.70 | 0.04                      | 1.0            | 1.23         | 1.23 | 1.24 | 1.23 |
| 2.0            | 5.39                            | 5.39 | 5.39 | 0.00                   | 34.59             | 33.65 | 34.57 | 0.02                      | 2.0            | 1.14         | 1.17 | 1.17 | 1.17 |
| 3.0            | 5.31                            | 5.31 | 5.31 | 0.01                   | 35.11             | 34.37 | 35.13 | 0.04                      | 3.0            | 1.11         | 1.14 | 1.14 | 1.14 |
| 4.0            | 5.27                            | 5.27 | 5.27 | 0.01                   | 35.46             | 34.83 | 35.52 | 0.06                      | 4.0            | 1.09         | 1.13 | 1.13 | 1.13 |
| 5.0            | 5.24                            | 5.25 | 5.25 | 0.01                   | 35.64             | 35.08 | 35.70 | 0.04                      | 5.0            | 1.07         | 1.12 | 1.12 | 1.12 |
| 10.0           | 5.22                            | 5.22 | 5.21 | 0.01                   | 35.90             | 35.47 | 35.91 | 0.05                      | 10.0           | 1.05         | 1.10 | 1.10 | 1.10 |
| 15.0           | 5.21                            | 5.21 | 5.21 | 0.01                   | 35.71             | 35.38 | 35.66 | 0.06                      | 15.0           | 1.04         | 1.10 | 1.10 | 1.10 |
| 20.0           | 5.21                            | 5.21 | 5.21 | 0.00                   | 35.34             | 35.08 | 35.18 | 0.12                      | 20.0           | 1.04         | 1.10 | 1.10 | 1.10 |
| 25.0           | 5.21                            | 5.21 | 5.21 | 0.00                   | 34.79             | 34.66 | 34.63 | 0.13                      | 25.0           | 1.04         | 1.10 | 1.10 | 1.09 |
| 30.0           | 5.22                            | 5.22 | 5.22 | 0.00                   | 34.26             | 34.20 | 34.02 | 0.12                      | 30.0           | 1.05         | 1.10 | 1.10 | 1.09 |
| 35.0           | 5.23                            | 5.22 | 5.22 | 0.00                   | 33.66             | 33.66 | 33.34 | 0.17                      | 35.0           | 1.05         | 1.10 | 1.10 | 1.09 |
| 40.0           | 5.23                            | 5.23 | 5.23 | 0.00                   | 33.05             | 33.13 | 32.70 | 0.19                      | 40.0           | 1.05         | 1.10 | 1.10 | 1.09 |
| 45.0           | 5.24                            | 5.23 | 5.23 | 0.01                   | 32.51             | 32.60 | 32.10 | 0.18                      | 45.0           | 1.06         | 1.10 | 1.10 | 1.09 |
| 50.0           | 5.24                            | 5.24 | 5.24 | 0.00                   | 31.91             | 32.10 | 31.47 | 0.23                      | 50.0           | 1.06         | 1.10 | 1.10 | 1.09 |
| 55.0           | 5.25                            | 5.24 | 5.24 | 0.01                   | 31.35             | 31.59 | 30.91 | 0.19                      | 55.0           | 1.06         | 1.10 | 1.10 | 1.09 |
| 60.0           | 5.26                            | 5.25 | 5.25 | 0.01                   | 30.82             | 31.06 | 30.34 | 0.22                      | 60.0           | 1.07         | 1.10 | 1.10 | 1.09 |
| 65.0           | 5.26                            | 5.25 | 5.26 | 0.00                   | 30.31             | 30.58 | 29.80 | 0.29                      | 65.0           | 1.07         | 1.10 | 1.10 | 1.10 |
| 80.0           | 5.28                            | 5.27 | 5.26 | 0.01                   | 28.88             | 29.24 | 28.36 | 0.36                      | 80.0           | 1.09         | 1.11 | 1.11 | 1.11 |
| 100.0          | 5.30                            | 5.28 | 5.28 | 0.02                   | 27.25             | 27.66 | 26.68 | 0.42                      | 100.0          | 1.11         | 1.12 | 1.12 | 1.13 |
| 120.0          | 5.32                            | 5.29 | 5.29 | 0.03                   | 25.87             | 26.31 | 25.27 | 0.50                      | 120.0          | 1.12         | 1.12 | 1.12 | 1.13 |
| 140.0          | 5.35                            | 5.31 | 5.30 | 0.05                   | 24.66             | 25.10 | 24.06 | 0.59                      | 140.0          | 1.14         | 1.12 | 1.12 | 1.13 |
| 160.0          | 5.38                            | 5.33 | 5.32 | 0.07                   | 23.60             | 24.05 | 22.99 | 0.68                      | 160.0          | 1.15         | 1.12 | 1.12 | 1.13 |
| 180.0          | 5.41                            | 5.35 | 5.33 | 0.08                   | 22.65             | 23.11 | 22.02 | 0.79                      | 180.0          | 1.16         | 1.13 | 1.13 | 1.14 |
| 200.0          | 5.44                            | 5.37 | 5.34 | 0.10                   | 21.80             | 22.26 | 21.17 | 0.86                      | 200.0          | 1.18         | 1.15 | 1.15 | 1.15 |
| 220.0          | 5.48                            | 5.38 | 5.36 | 0.11                   | 21.04             | 21.50 | 20.40 | 0.93                      | 220.0          | 1.20         | 1.15 | 1.15 | 1.15 |
| 240.0          | 5.52                            | 5.41 | 5.38 | 0.14                   | 20.32             | 20.78 | 19.68 | 1.06                      | 240.0          | 1.22         | 1.15 | 1.14 | 1.15 |
| 260.0          | 5.56                            | 5.43 | 5.40 | 0.16                   | 19.66             | 20.12 | 19.01 | 1.18                      | 260.0          | 1.24         | 1.14 | 1.14 | 1.15 |
| 280.0          | 5.61                            | 5.46 | 5.42 | 0.18                   | 19.06             | 19.51 | 18.40 | 1.30                      | 280.0          | 1.25         | 1.16 | 1.15 | 1.17 |
| 300.0          | 5.66                            | 5.48 | 5.44 | 0.22                   | 18.49             | 18.93 | 17.82 | 1.38                      | 300.0          | 1.27         | 1.19 | 1.18 | 1.19 |
| 320.0          | 5.70                            | 5.50 | 5.46 | 0.24                   | 17.95             | 18.38 | 17.27 | 1.47                      | 320.0          | 1.28         | 1.21 | 1.20 | 1.21 |
| 340.0          | 5.75                            | 5.52 | 5.48 | 0.27                   | 17.43             | 17.87 | 16.75 | 1.62                      | 340.0          | 1.30         | 1.21 | 1.19 | 1.21 |
| 360.0          | 5.81                            | 5.57 | 5.50 | 0.31                   | 16.95             | 17.38 | 16.25 | 1.78                      | 360.0          | 1.32         | 1.20 | 1.18 | 1.20 |
| 380.0          | 5.87                            | 5.59 | 5.52 | 0.35                   | 16.49             | 16.91 | 15.79 | 1.85                      | 380.0          | 1.33         | 1.21 | 1.19 | 1.20 |

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

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