

# 2 Way-0° Power Splitter/Combiner

SXPS-ED13856/1

## Typical Performance Data

| FREQUENCY<br>(MHz) | TOTAL LOSS <sup>1</sup><br>(dB) |      | AMPLITUDE<br>UNBALANCE<br>(dB) | ISOLATION<br>(dB) | PHASE<br>UNBALANCE<br>(deg.) | FREQUENCY<br>(MHz) | VSWR<br>(:1) |      |      |
|--------------------|---------------------------------|------|--------------------------------|-------------------|------------------------------|--------------------|--------------|------|------|
|                    | S-1                             | S-2  |                                |                   |                              |                    | S            | 1    | 2    |
| 0.03               | 3.18                            | 3.18 | 0.00                           | 18.02             | 0.04                         | 0.03               | 1.30         | 1.71 | 1.71 |
| 0.04               | 3.13                            | 3.13 | 0.00                           | 19.94             | 0.03                         | 0.04               | 1.23         | 1.52 | 1.52 |
| 0.05               | 3.11                            | 3.11 | 0.00                           | 21.54             | 0.02                         | 0.05               | 1.19         | 1.41 | 1.41 |
| 0.06               | 3.09                            | 3.09 | 0.00                           | 22.92             | 0.02                         | 0.06               | 1.16         | 1.34 | 1.34 |
| 0.07               | 3.08                            | 3.09 | 0.00                           | 24.11             | 0.01                         | 0.07               | 1.14         | 1.29 | 1.29 |
| 0.08               | 3.08                            | 3.08 | 0.00                           | 25.16             | 0.03                         | 0.08               | 1.13         | 1.25 | 1.25 |
| 0.09               | 3.08                            | 3.08 | 0.00                           | 26.13             | 0.01                         | 0.09               | 1.12         | 1.22 | 1.22 |
| 0.10               | 3.07                            | 3.08 | 0.00                           | 27.01             | 0.01                         | 0.10               | 1.11         | 1.20 | 1.20 |
| 0.11               | 3.08                            | 3.08 | 0.00                           | 27.81             | 0.03                         | 0.11               | 1.10         | 1.18 | 1.18 |
| 0.12               | 3.08                            | 3.08 | 0.00                           | 28.51             | 0.00                         | 0.12               | 1.10         | 1.16 | 1.16 |
| 0.13               | 3.07                            | 3.08 | 0.00                           | 29.24             | 0.02                         | 0.13               | 1.09         | 1.15 | 1.15 |
| 0.14               | 3.07                            | 3.07 | 0.00                           | 29.83             | 0.01                         | 0.14               | 1.09         | 1.14 | 1.14 |
| 0.15               | 3.07                            | 3.07 | 0.00                           | 30.45             | 0.01                         | 0.15               | 1.09         | 1.13 | 1.13 |
| 0.20               | 3.07                            | 3.08 | 0.00                           | 32.78             | 0.00                         | 0.20               | 1.08         | 1.10 | 1.10 |
| 0.50               | 3.08                            | 3.08 | 0.00                           | 38.48             | 0.01                         | 0.50               | 1.06         | 1.07 | 1.07 |
| 1.00               | 3.08                            | 3.08 | 0.00                           | 40.32             | 0.02                         | 1.00               | 1.06         | 1.06 | 1.06 |
| 5.00               | 3.08                            | 3.08 | 0.00                           | 40.03             | 0.00                         | 5.00               | 1.07         | 1.04 | 1.04 |
| 10.00              | 3.09                            | 3.09 | 0.00                           | 40.01             | 0.01                         | 10.00              | 1.08         | 1.04 | 1.04 |
| 20.00              | 3.12                            | 3.12 | 0.00                           | 39.44             | 0.02                         | 20.00              | 1.08         | 1.04 | 1.03 |
| 40.00              | 3.16                            | 3.16 | 0.00                           | 37.45             | 0.03                         | 40.00              | 1.09         | 1.03 | 1.03 |
| 60.00              | 3.19                            | 3.20 | 0.00                           | 35.67             | 0.03                         | 60.00              | 1.09         | 1.03 | 1.03 |
| 80.00              | 3.22                            | 3.23 | 0.00                           | 34.17             | 0.05                         | 80.00              | 1.09         | 1.04 | 1.04 |
| 100.00             | 3.25                            | 3.26 | 0.00                           | 33.00             | 0.06                         | 100.00             | 1.09         | 1.05 | 1.05 |
| 110.00             | 3.27                            | 3.27 | 0.00                           | 32.58             | 0.06                         | 110.00             | 1.09         | 1.06 | 1.05 |
| 120.00             | 3.28                            | 3.28 | 0.00                           | 32.23             | 0.06                         | 120.00             | 1.09         | 1.06 | 1.06 |
| 130.00             | 3.29                            | 3.30 | 0.01                           | 31.96             | 0.06                         | 130.00             | 1.09         | 1.07 | 1.07 |
| 140.00             | 3.31                            | 3.31 | 0.01                           | 31.68             | 0.06                         | 140.00             | 1.09         | 1.08 | 1.08 |
| 150.00             | 3.32                            | 3.33 | 0.01                           | 31.42             | 0.06                         | 150.00             | 1.09         | 1.09 | 1.08 |
| 160.00             | 3.34                            | 3.34 | 0.01                           | 31.17             | 0.06                         | 160.00             | 1.09         | 1.10 | 1.09 |
| 170.00             | 3.35                            | 3.36 | 0.01                           | 30.94             | 0.05                         | 170.00             | 1.09         | 1.10 | 1.10 |
| 180.00             | 3.37                            | 3.38 | 0.01                           | 30.78             | 0.05                         | 180.00             | 1.08         | 1.11 | 1.11 |
| 200.00             | 3.40                            | 3.42 | 0.01                           | 30.59             | 0.03                         | 200.00             | 1.09         | 1.13 | 1.13 |
| 220.00             | 3.44                            | 3.46 | 0.02                           | 30.47             | 0.01                         | 220.00             | 1.09         | 1.15 | 1.15 |
| 240.00             | 3.49                            | 3.51 | 0.02                           | 30.21             | 0.02                         | 240.00             | 1.09         | 1.18 | 1.17 |
| 260.00             | 3.54                            | 3.56 | 0.03                           | 29.90             | 0.05                         | 260.00             | 1.10         | 1.20 | 1.19 |
| 280.00             | 3.60                            | 3.63 | 0.03                           | 29.59             | 0.10                         | 280.00             | 1.11         | 1.23 | 1.22 |
| 300.00             | 3.67                            | 3.71 | 0.04                           | 29.07             | 0.15                         | 300.00             | 1.13         | 1.26 | 1.25 |
| 350.00             | 3.93                            | 4.00 | 0.07                           | 26.45             | 0.34                         | 350.00             | 1.19         | 1.35 | 1.33 |
| 400.00             | 4.44                            | 4.56 | 0.13                           | 21.95             | 0.58                         | 400.00             | 1.28         | 1.49 | 1.47 |

<sup>1</sup>Total Loss = Insertion Loss + 3dB Splitter Loss