

# 2 Way-0° Power Splitter/Combiner

**SYPS-ED12879/2**

## Typical Performance Data

| FREQUENCY<br>(MHz) | TOTAL LOSS <sup>1</sup><br>(dB) |      | AMPLITUDE<br>UNBALANCE<br>(dB) | ISOLATION<br>(dB)<br>1-2 | PHASE<br>UNBALANCE<br>(deg.) | FREQUENCY<br>(MHz) | VSWR<br>(:1) |      |      |
|--------------------|---------------------------------|------|--------------------------------|--------------------------|------------------------------|--------------------|--------------|------|------|
|                    | S-1                             | S-2  |                                |                          |                              |                    | S            | 1    | 2    |
| 0.3                | 3.80                            | 3.77 | 0.03                           | 14.27                    | 0.06                         | 0.3                | 1.33         | 2.26 | 2.27 |
| 100.0              | 3.40                            | 3.40 | 0.01                           | 28.05                    | 0.05                         | 100.0              | 1.10         | 1.10 | 1.10 |
| 200.0              | 3.46                            | 3.45 | 0.01                           | 26.75                    | 0.08                         | 200.0              | 1.14         | 1.11 | 1.11 |
| 300.0              | 3.50                            | 3.49 | 0.01                           | 25.05                    | 0.11                         | 300.0              | 1.19         | 1.13 | 1.13 |
| 400.0              | 3.54                            | 3.53 | 0.01                           | 23.51                    | 0.17                         | 400.0              | 1.24         | 1.15 | 1.15 |
| 500.0              | 3.59                            | 3.57 | 0.01                           | 22.19                    | 0.20                         | 500.0              | 1.28         | 1.17 | 1.17 |
| 600.0              | 3.64                            | 3.63 | 0.02                           | 21.05                    | 0.26                         | 600.0              | 1.32         | 1.19 | 1.19 |
| 700.0              | 3.69                            | 3.68 | 0.01                           | 20.17                    | 0.28                         | 700.0              | 1.37         | 1.21 | 1.20 |
| 800.0              | 3.75                            | 3.74 | 0.01                           | 19.43                    | 0.30                         | 800.0              | 1.41         | 1.23 | 1.22 |
| 850.0              | 3.78                            | 3.77 | 0.01                           | 19.13                    | 0.30                         | 850.0              | 1.43         | 1.24 | 1.23 |
| 900.0              | 3.80                            | 3.80 | 0.00                           | 18.84                    | 0.27                         | 900.0              | 1.44         | 1.25 | 1.23 |
| 950.0              | 3.84                            | 3.84 | 0.00                           | 18.60                    | 0.27                         | 950.0              | 1.46         | 1.26 | 1.24 |
| 1000.0             | 3.86                            | 3.87 | 0.01                           | 18.35                    | 0.26                         | 1000.0             | 1.48         | 1.27 | 1.25 |
| 1100.0             | 3.92                            | 3.94 | 0.02                           | 17.96                    | 0.20                         | 1100.0             | 1.52         | 1.29 | 1.26 |
| 1200.0             | 3.99                            | 4.02 | 0.03                           | 17.68                    | 0.16                         | 1200.0             | 1.55         | 1.31 | 1.28 |
| 1300.0             | 4.06                            | 4.09 | 0.03                           | 17.44                    | 0.11                         | 1300.0             | 1.59         | 1.33 | 1.30 |
| 1400.0             | 4.12                            | 4.15 | 0.03                           | 17.28                    | 0.02                         | 1400.0             | 1.62         | 1.35 | 1.32 |
| 1500.0             | 4.19                            | 4.21 | 0.02                           | 17.20                    | 0.16                         | 1500.0             | 1.65         | 1.38 | 1.35 |
| 1600.0             | 4.26                            | 4.27 | 0.02                           | 17.19                    | 0.32                         | 1600.0             | 1.68         | 1.41 | 1.37 |
| 1700.0             | 4.33                            | 4.33 | 0.00                           | 17.27                    | 0.49                         | 1700.0             | 1.71         | 1.44 | 1.39 |
| 1800.0             | 4.39                            | 4.38 | 0.01                           | 17.46                    | 0.66                         | 1800.0             | 1.73         | 1.47 | 1.42 |
| 1900.0             | 4.45                            | 4.42 | 0.03                           | 17.77                    | 0.84                         | 1900.0             | 1.74         | 1.50 | 1.44 |
| 2000.0             | 4.51                            | 4.46 | 0.05                           | 18.22                    | 1.01                         | 2000.0             | 1.74         | 1.53 | 1.46 |
| 2100.0             | 4.55                            | 4.48 | 0.07                           | 18.86                    | 1.17                         | 2100.0             | 1.73         | 1.56 | 1.47 |
| 2200.0             | 4.60                            | 4.51 | 0.10                           | 19.73                    | 1.34                         | 2200.0             | 1.70         | 1.57 | 1.48 |
| 2300.0             | 4.65                            | 4.53 | 0.12                           | 20.93                    | 1.48                         | 2300.0             | 1.66         | 1.58 | 1.48 |
| 2400.0             | 4.69                            | 4.54 | 0.15                           | 22.62                    | 1.59                         | 2400.0             | 1.61         | 1.59 | 1.48 |
| 2500.0             | 4.75                            | 4.57 | 0.18                           | 25.11                    | 1.64                         | 2500.0             | 1.55         | 1.58 | 1.47 |
| 2600.0             | 4.82                            | 4.60 | 0.22                           | 29.01                    | 1.59                         | 2600.0             | 1.48         | 1.57 | 1.44 |
| 2700.0             | 4.90                            | 4.64 | 0.26                           | 34.22                    | 1.50                         | 2700.0             | 1.41         | 1.54 | 1.42 |
| 2750.0             | 4.96                            | 4.67 | 0.29                           | 33.71                    | 1.40                         | 2750.0             | 1.38         | 1.52 | 1.40 |
| 2800.0             | 5.03                            | 4.71 | 0.32                           | 30.38                    | 1.28                         | 2800.0             | 1.36         | 1.49 | 1.38 |
| 2900.0             | 5.19                            | 4.82 | 0.37                           | 24.46                    | 0.86                         | 2900.0             | 1.32         | 1.44 | 1.33 |
| 3000.0             | 5.44                            | 5.00 | 0.44                           | 20.36                    | 0.25                         | 3000.0             | 1.34         | 1.38 | 1.28 |
| 3020.0             | 5.50                            | 5.05 | 0.46                           | 19.68                    | 0.10                         | 3020.0             | 1.35         | 1.37 | 1.26 |
| 3040.0             | 5.56                            | 5.09 | 0.48                           | 19.02                    | 0.06                         | 3040.0             | 1.36         | 1.36 | 1.25 |
| 3060.0             | 5.63                            | 5.14 | 0.49                           | 18.39                    | 0.27                         | 3060.0             | 1.37         | 1.35 | 1.24 |
| 3080.0             | 5.71                            | 5.20 | 0.51                           | 17.79                    | 0.46                         | 3080.0             | 1.39         | 1.33 | 1.23 |
| 3100.0             | 5.80                            | 5.27 | 0.53                           | 17.22                    | 0.68                         | 3100.0             | 1.40         | 1.32 | 1.21 |
| 3120.0             | 5.88                            | 5.33 | 0.55                           | 16.67                    | 0.90                         | 3120.0             | 1.42         | 1.31 | 1.20 |
| 3140.0             | 5.97                            | 5.40 | 0.57                           | 16.13                    | 1.13                         | 3140.0             | 1.44         | 1.29 | 1.19 |
| 3160.0             | 6.08                            | 5.49 | 0.59                           | 15.62                    | 1.46                         | 3160.0             | 1.46         | 1.28 | 1.17 |
| 3180.0             | 6.19                            | 5.58 | 0.61                           | 15.11                    | 1.79                         | 3180.0             | 1.49         | 1.27 | 1.16 |
| 3200.0             | 6.31                            | 5.67 | 0.64                           | 14.62                    | 2.16                         | 3200.0             | 1.51         | 1.26 | 1.15 |

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



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