

# 12 Way-0° Power Splitter/Combiner

# ZFSC-12-175+

## Typical Performance Data

| FREQ.<br>(MHz) | TOTAL<br>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) |         |
|----------------|------------------------------------|------------------------|-------------------|----------|---------------------------|----------------|--------------|---------|
|                |                                    |                        | Adjacent          | Opposite |                           |                | S            | OUTPUTS |
| 10.0           | 10.93                              | 0.25                   | 38.30             | 36.86    | 1.05                      | 10.0           | 1.33         | 1.40    |
| 18.0           | 11.03                              | 0.20                   | 37.76             | 36.47    | 1.21                      | 18.0           | 1.35         | 1.36    |
| 26.0           | 11.11                              | 0.17                   | 37.26             | 36.17    | 1.29                      | 26.0           | 1.38         | 1.37    |
| 34.0           | 11.20                              | 0.14                   | 37.17             | 36.00    | 1.26                      | 34.0           | 1.34         | 1.40    |
| 42.0           | 11.23                              | 0.11                   | 36.94             | 35.79    | 1.41                      | 42.0           | 1.27         | 1.26    |
| 50.0           | 11.27                              | 0.10                   | 36.80             | 35.53    | 1.46                      | 50.0           | 1.32         | 1.24    |
| 60.0           | 11.31                              | 0.10                   | 36.35             | 35.12    | 1.50                      | 60.0           | 1.32         | 1.23    |
| 70.0           | 11.36                              | 0.10                   | 35.88             | 34.68    | 1.49                      | 70.0           | 1.31         | 1.22    |
| 80.0           | 11.41                              | 0.10                   | 35.38             | 34.18    | 1.52                      | 80.0           | 1.30         | 1.22    |
| 90.0           | 11.44                              | 0.10                   | 34.77             | 33.64    | 1.35                      | 90.0           | 1.30         | 1.22    |
| 100.0          | 11.44                              | 0.11                   | 34.22             | 33.04    | 1.30                      | 100.0          | 1.30         | 1.22    |
| 110.0          | 11.47                              | 0.13                   | 33.76             | 32.55    | 1.21                      | 110.0          | 1.30         | 1.22    |
| 120.0          | 11.49                              | 0.15                   | 33.45             | 32.04    | 1.21                      | 120.0          | 1.29         | 1.22    |
| 130.0          | 11.51                              | 0.16                   | 32.82             | 31.56    | 1.06                      | 130.0          | 1.30         | 1.21    |
| 140.0          | 11.53                              | 0.18                   | 32.46             | 31.06    | 1.05                      | 140.0          | 1.30         | 1.20    |
| 150.0          | 11.55                              | 0.18                   | 32.00             | 30.71    | 1.03                      | 150.0          | 1.29         | 1.19    |
| 160.0          | 11.57                              | 0.18                   | 31.62             | 30.28    | 0.94                      | 160.0          | 1.28         | 1.17    |
| 170.0          | 11.59                              | 0.18                   | 31.20             | 29.91    | 0.90                      | 170.0          | 1.28         | 1.16    |
| 180.0          | 11.60                              | 0.18                   | 30.85             | 29.59    | 0.91                      | 180.0          | 1.28         | 1.16    |
| 190.0          | 11.63                              | 0.19                   | 30.50             | 29.23    | 0.96                      | 190.0          | 1.28         | 1.15    |
| 200.0          | 11.62                              | 0.19                   | 30.15             | 28.92    | 1.00                      | 200.0          | 1.28         | 1.15    |
| 210.0          | 11.65                              | 0.19                   | 29.88             | 28.64    | 0.98                      | 210.0          | 1.26         | 1.15    |
| 220.0          | 11.65                              | 0.19                   | 29.64             | 28.39    | 1.05                      | 220.0          | 1.28         | 1.15    |
| 230.0          | 11.66                              | 0.19                   | 29.32             | 28.13    | 1.08                      | 230.0          | 1.29         | 1.15    |
| 240.0          | 11.67                              | 0.19                   | 29.11             | 27.91    | 1.06                      | 240.0          | 1.29         | 1.15    |
| 250.0          | 11.69                              | 0.19                   | 28.82             | 27.68    | 1.08                      | 250.0          | 1.29         | 1.15    |
| 270.0          | 11.74                              | 0.20                   | 28.38             | 27.32    | 1.25                      | 270.0          | 1.31         | 1.14    |
| 290.0          | 11.77                              | 0.21                   | 28.04             | 27.03    | 1.32                      | 290.0          | 1.33         | 1.14    |
| 310.0          | 11.79                              | 0.21                   | 27.73             | 26.77    | 1.38                      | 310.0          | 1.34         | 1.15    |
| 330.0          | 11.81                              | 0.22                   | 27.42             | 26.52    | 1.44                      | 330.0          | 1.36         | 1.16    |
| 350.0          | 11.87                              | 0.23                   | 27.18             | 26.38    | 1.46                      | 350.0          | 1.39         | 1.17    |
| 370.0          | 11.90                              | 0.23                   | 26.99             | 26.27    | 1.47                      | 370.0          | 1.42         | 1.18    |
| 390.0          | 11.91                              | 0.25                   | 26.84             | 26.18    | 1.47                      | 390.0          | 1.44         | 1.19    |
| 410.0          | 11.93                              | 0.28                   | 26.69             | 26.11    | 1.49                      | 410.0          | 1.45         | 1.19    |
| 430.0          | 11.98                              | 0.31                   | 26.63             | 26.08    | 1.56                      | 430.0          | 1.45         | 1.20    |
| 450.0          | 12.00                              | 0.33                   | 26.56             | 26.07    | 1.57                      | 450.0          | 1.46         | 1.21    |
| 460.0          | 11.99                              | 0.34                   | 26.49             | 26.08    | 1.59                      | 460.0          | 1.45         | 1.22    |
| 470.0          | 11.99                              | 0.36                   | 26.46             | 26.11    | 1.63                      | 470.0          | 1.45         | 1.23    |
| 480.0          | 12.02                              | 0.37                   | 26.45             | 26.11    | 1.55                      | 480.0          | 1.44         | 1.24    |
| 490.0          | 12.03                              | 0.39                   | 26.44             | 26.14    | 1.57                      | 490.0          | 1.42         | 1.24    |
| 500.0          | 12.04                              | 0.40                   | 26.46             | 26.14    | 1.65                      | 500.0          | 1.41         | 1.25    |

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

