

# 4 Way-0° Power Splitter/Combiner

ZFSC-4-175

## 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  | S-4  |                        | 1-2               | 1-3   | 3-4   |                           |                | S            | 1    | 2    | 3    | 4    |
| 10.0           | 6.47                            | 6.47 | 6.46 | 6.47 | 0.01                   | 38.86             | 35.62 | 37.00 | 0.06                      | 10.0           | 1.10         | 1.26 | 1.23 | 1.25 | 1.24 |
| 18.0           | 6.48                            | 6.48 | 6.47 | 6.47 | 0.01                   | 42.20             | 36.36 | 38.75 | 0.08                      | 18.0           | 1.10         | 1.25 | 1.26 | 1.24 | 1.26 |
| 26.0           | 6.49                            | 6.49 | 6.48 | 6.49 | 0.01                   | 43.50             | 36.46 | 39.31 | 0.08                      | 26.0           | 1.11         | 1.25 | 1.29 | 1.25 | 1.29 |
| 34.0           | 6.50                            | 6.49 | 6.48 | 6.49 | 0.02                   | 43.95             | 36.35 | 39.54 | 0.11                      | 34.0           | 1.11         | 1.26 | 1.32 | 1.25 | 1.32 |
| 42.0           | 6.50                            | 6.50 | 6.50 | 6.50 | 0.01                   | 43.90             | 36.18 | 39.53 | 0.07                      | 42.0           | 1.12         | 1.26 | 1.35 | 1.26 | 1.35 |
| 50.0           | 6.51                            | 6.51 | 6.51 | 6.50 | 0.01                   | 43.86             | 36.02 | 39.52 | 0.17                      | 50.0           | 1.13         | 1.27 | 1.37 | 1.26 | 1.37 |
| 60.0           | 6.52                            | 6.51 | 6.52 | 6.52 | 0.01                   | 43.61             | 35.88 | 39.23 | 0.18                      | 60.0           | 1.13         | 1.28 | 1.39 | 1.27 | 1.38 |
| 70.0           | 6.53                            | 6.53 | 6.53 | 6.52 | 0.02                   | 43.50             | 35.74 | 38.91 | 0.17                      | 70.0           | 1.14         | 1.28 | 1.40 | 1.27 | 1.40 |
| 80.0           | 6.54                            | 6.54 | 6.54 | 6.54 | 0.00                   | 43.38             | 35.58 | 38.59 | 0.16                      | 80.0           | 1.18         | 1.28 | 1.41 | 1.27 | 1.41 |
| 90.0           | 6.56                            | 6.56 | 6.55 | 6.55 | 0.01                   | 43.13             | 35.49 | 38.21 | 0.10                      | 90.0           | 1.16         | 1.29 | 1.42 | 1.28 | 1.41 |
| 100.0          | 6.56                            | 6.55 | 6.56 | 6.56 | 0.01                   | 42.89             | 35.36 | 37.85 | 0.16                      | 100.0          | 1.17         | 1.29 | 1.42 | 1.28 | 1.42 |
| 128.0          | 6.59                            | 6.57 | 6.58 | 6.57 | 0.02                   | 42.20             | 35.19 | 36.81 | 0.25                      | 128.0          | 1.20         | 1.30 | 1.43 | 1.28 | 1.42 |
| 156.0          | 6.60                            | 6.60 | 6.59 | 6.60 | 0.01                   | 41.57             | 34.91 | 35.80 | 0.32                      | 156.0          | 1.23         | 1.30 | 1.43 | 1.29 | 1.42 |
| 184.0          | 6.62                            | 6.62 | 6.62 | 6.62 | 0.01                   | 40.93             | 34.75 | 35.04 | 0.33                      | 184.0          | 1.25         | 1.31 | 1.42 | 1.29 | 1.42 |
| 212.0          | 6.62                            | 6.61 | 6.61 | 6.61 | 0.01                   | 40.24             | 34.56 | 34.27 | 0.41                      | 212.0          | 1.27         | 1.31 | 1.42 | 1.29 | 1.41 |
| 240.0          | 6.67                            | 6.66 | 6.66 | 6.67 | 0.01                   | 39.52             | 34.53 | 33.67 | 0.46                      | 240.0          | 1.29         | 1.32 | 1.41 | 1.29 | 1.40 |
| 268.0          | 6.66                            | 6.64 | 6.63 | 6.64 | 0.03                   | 38.67             | 34.34 | 33.03 | 0.61                      | 268.0          | 1.31         | 1.32 | 1.40 | 1.29 | 1.40 |
| 296.0          | 6.68                            | 6.66 | 6.65 | 6.66 | 0.02                   | 37.88             | 34.36 | 32.50 | 0.66                      | 296.0          | 1.32         | 1.33 | 1.39 | 1.29 | 1.39 |
| 324.0          | 6.72                            | 6.71 | 6.72 | 6.72 | 0.01                   | 36.91             | 34.32 | 32.00 | 0.68                      | 324.0          | 1.34         | 1.33 | 1.38 | 1.29 | 1.38 |
| 352.0          | 6.69                            | 6.68 | 6.67 | 6.67 | 0.02                   | 35.91             | 34.24 | 31.46 | 0.63                      | 352.0          | 1.35         | 1.34 | 1.37 | 1.29 | 1.37 |
| 380.0          | 6.74                            | 6.71 | 6.72 | 6.72 | 0.03                   | 34.90             | 34.28 | 30.99 | 0.85                      | 380.0          | 1.35         | 1.34 | 1.36 | 1.30 | 1.36 |
| 404.0          | 6.74                            | 6.72 | 6.73 | 6.74 | 0.02                   | 34.11             | 34.34 | 30.56 | 0.86                      | 404.0          | 1.36         | 1.35 | 1.36 | 1.30 | 1.35 |
| 428.0          | 6.75                            | 6.72 | 6.72 | 6.73 | 0.03                   | 33.30             | 34.39 | 30.18 | 0.93                      | 428.0          | 1.36         | 1.35 | 1.35 | 1.31 | 1.35 |
| 452.0          | 6.76                            | 6.72 | 6.73 | 6.74 | 0.04                   | 32.53             | 34.35 | 29.71 | 0.96                      | 452.0          | 1.36         | 1.36 | 1.34 | 1.31 | 1.34 |
| 476.0          | 6.78                            | 6.75 | 6.75 | 6.76 | 0.03                   | 31.77             | 34.41 | 29.30 | 1.11                      | 476.0          | 1.35         | 1.36 | 1.34 | 1.31 | 1.33 |
| 500.0          | 6.77                            | 6.74 | 6.76 | 6.77 | 0.04                   | 31.02             | 34.42 | 28.87 | 1.09                      | 500.0          | 1.34         | 1.36 | 1.33 | 1.31 | 1.33 |
| 538.0          | 6.79                            | 6.76 | 6.78 | 6.78 | 0.03                   | 29.96             | 34.36 | 28.16 | 1.16                      | 538.0          | 1.32         | 1.37 | 1.32 | 1.32 | 1.33 |
| 576.0          | 6.83                            | 6.79 | 6.79 | 6.82 | 0.04                   | 29.04             | 34.22 | 27.49 | 1.11                      | 576.0          | 1.30         | 1.37 | 1.32 | 1.32 | 1.32 |
| 614.0          | 6.85                            | 6.81 | 6.82 | 6.83 | 0.04                   | 28.26             | 33.93 | 26.85 | 1.36                      | 614.0          | 1.27         | 1.37 | 1.31 | 1.32 | 1.32 |
| 652.0          | 6.87                            | 6.82 | 6.87 | 6.86 | 0.05                   | 27.52             | 33.50 | 26.26 | 1.45                      | 652.0          | 1.23         | 1.38 | 1.31 | 1.33 | 1.33 |
| 690.0          | 6.90                            | 6.85 | 6.92 | 6.89 | 0.06                   | 26.94             | 32.95 | 25.73 | 1.52                      | 690.0          | 1.19         | 1.38 | 1.31 | 1.33 | 1.34 |
| 728.0          | 6.94                            | 6.88 | 6.95 | 6.95 | 0.07                   | 26.47             | 32.35 | 25.28 | 1.63                      | 728.0          | 1.16         | 1.39 | 1.32 | 1.34 | 1.35 |
| 766.0          | 6.99                            | 6.94 | 7.03 | 7.02 | 0.09                   | 26.08             | 31.65 | 24.83 | 1.59                      | 766.0          | 1.13         | 1.40 | 1.33 | 1.36 | 1.37 |
| 804.0          | 7.06                            | 7.00 | 7.10 | 7.09 | 0.10                   | 25.80             | 31.03 | 24.46 | 1.66                      | 804.0          | 1.13         | 1.40 | 1.34 | 1.37 | 1.40 |
| 842.0          | 7.11                            | 7.06 | 7.18 | 7.15 | 0.12                   | 25.50             | 30.33 | 24.01 | 1.71                      | 842.0          | 1.15         | 1.42 | 1.36 | 1.39 | 1.43 |
| 880.0          | 7.18                            | 7.11 | 7.27 | 7.25 | 0.15                   | 25.38             | 29.90 | 23.88 | 1.81                      | 880.0          | 1.19         | 1.44 | 1.38 | 1.41 | 1.46 |
| 904.0          | 7.23                            | 7.17 | 7.34 | 7.31 | 0.17                   | 25.14             | 29.60 | 23.85 | 1.84                      | 904.0          | 1.23         | 1.45 | 1.40 | 1.42 | 1.48 |
| 928.0          | 7.27                            | 7.20 | 7.38 | 7.35 | 0.18                   | 24.94             | 29.32 | 24.04 | 1.82                      | 928.0          | 1.27         | 1.46 | 1.42 | 1.44 | 1.51 |
| 952.0          | 7.32                            | 7.25 | 7.45 | 7.41 | 0.20                   | 24.70             | 29.13 | 24.52 | 1.87                      | 952.0          | 1.32         | 1.48 | 1.43 | 1.46 | 1.53 |
| 976.0          | 7.35                            | 7.27 | 7.51 | 7.46 | 0.23                   | 24.37             | 28.66 | 25.13 | 1.84                      | 976.0          | 1.37         | 1.49 | 1.45 | 1.47 | 1.55 |
| 1000.0         | 7.40                            | 7.32 | 7.58 | 7.52 | 0.25                   | 24.17             | 27.58 | 25.76 | 1.84                      | 1000.0         | 1.45         | 1.50 | 1.46 | 1.48 | 1.57 |

<sup>1</sup> Total Loss = Insertion Loss+ 6dB Splitter Loss

REV. X2

ZFSC-4-175

100627

Page 1 of 1



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

