

# 3 Way-0° Power Splitter/Combiner

ZCSC-ED8308/1

## 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    |
| 0.3            | 5.30                            | 5.28 | 5.29 | 0.02                   | 20.96             | 21.30 | 20.76 | 0.26                      | 0.3            | 1.51         | 1.88 | 1.89 | 1.89 |
| 0.5            | 5.23                            | 5.23 | 5.23 | 0.00                   | 22.51             | 22.85 | 22.32 | 0.17                      | 0.5            | 1.32         | 1.58 | 1.59 | 1.58 |
| 0.7            | 5.21                            | 5.21 | 5.21 | 0.00                   | 23.67             | 23.98 | 23.45 | 0.13                      | 0.7            | 1.26         | 1.45 | 1.46 | 1.46 |
| 1.0            | 5.18                            | 5.19 | 5.19 | 0.00                   | 25.02             | 25.31 | 24.75 | 0.08                      | 1.0            | 1.22         | 1.36 | 1.37 | 1.36 |
| 3.0            | 5.07                            | 5.07 | 5.07 | 0.00                   | 28.33             | 28.48 | 28.00 | 0.03                      | 3.0            | 1.16         | 1.19 | 1.19 | 1.19 |
| 5.0            | 5.04                            | 5.04 | 5.04 | 0.00                   | 29.18             | 29.27 | 28.81 | 0.01                      | 5.0            | 1.14         | 1.14 | 1.14 | 1.14 |
| 7.0            | 5.03                            | 5.03 | 5.02 | 0.00                   | 29.47             | 29.53 | 29.16 | 0.01                      | 7.0            | 1.14         | 1.13 | 1.13 | 1.13 |
| 10.0           | 5.02                            | 5.02 | 5.02 | 0.00                   | 29.57             | 29.61 | 29.29 | 0.02                      | 10.0           | 1.13         | 1.12 | 1.12 | 1.12 |
| 30.0           | 5.05                            | 5.05 | 5.05 | 0.00                   | 29.33             | 29.41 | 29.15 | 0.06                      | 30.0           | 1.13         | 1.11 | 1.11 | 1.11 |
| 50.0           | 5.07                            | 5.07 | 5.07 | 0.00                   | 29.07             | 29.20 | 28.91 | 0.12                      | 50.0           | 1.13         | 1.11 | 1.11 | 1.11 |
| 70.0           | 5.10                            | 5.10 | 5.09 | 0.01                   | 28.68             | 28.90 | 28.59 | 0.16                      | 70.0           | 1.13         | 1.11 | 1.10 | 1.11 |
| 100.0          | 5.13                            | 5.13 | 5.12 | 0.01                   | 27.99             | 28.35 | 28.04 | 0.25                      | 100.0          | 1.14         | 1.10 | 1.10 | 1.10 |
| 150.0          | 5.17                            | 5.17 | 5.15 | 0.02                   | 26.86             | 27.44 | 27.10 | 0.36                      | 150.0          | 1.15         | 1.09 | 1.09 | 1.09 |
| 200.0          | 5.22                            | 5.23 | 5.19 | 0.05                   | 25.78             | 26.56 | 26.18 | 0.54                      | 200.0          | 1.17         | 1.09 | 1.07 | 1.08 |
| 250.0          | 5.27                            | 5.29 | 5.22 | 0.07                   | 24.97             | 25.88 | 25.47 | 0.69                      | 250.0          | 1.18         | 1.07 | 1.06 | 1.07 |
| 300.0          | 5.32                            | 5.35 | 5.24 | 0.10                   | 24.38             | 25.40 | 24.96 | 0.87                      | 300.0          | 1.19         | 1.06 | 1.05 | 1.06 |
| 350.0          | 5.37                            | 5.40 | 5.27 | 0.14                   | 24.12             | 25.23 | 24.74 | 1.06                      | 350.0          | 1.19         | 1.04 | 1.06 | 1.04 |
| 400.0          | 5.42                            | 5.47 | 5.29 | 0.18                   | 24.15             | 25.35 | 24.83 | 1.27                      | 400.0          | 1.18         | 1.03 | 1.08 | 1.04 |
| 425.0          | 5.44                            | 5.50 | 5.30 | 0.20                   | 24.34             | 25.59 | 25.05 | 1.38                      | 425.0          | 1.17         | 1.02 | 1.09 | 1.04 |
| 450.0          | 5.46                            | 5.53 | 5.31 | 0.22                   | 24.66             | 26.00 | 25.42 | 1.52                      | 450.0          | 1.16         | 1.03 | 1.11 | 1.05 |
| 500.0          | 5.50                            | 5.60 | 5.33 | 0.27                   | 25.78             | 27.39 | 26.63 | 1.80                      | 500.0          | 1.12         | 1.04 | 1.14 | 1.07 |
| 550.0          | 5.55                            | 5.68 | 5.36 | 0.32                   | 27.92             | 30.19 | 28.96 | 2.15                      | 550.0          | 1.09         | 1.07 | 1.17 | 1.09 |
| 600.0          | 5.61                            | 5.79 | 5.41 | 0.38                   | 31.66             | 37.23 | 33.08 | 2.57                      | 600.0          | 1.12         | 1.11 | 1.20 | 1.12 |
| 650.0          | 5.71                            | 5.95 | 5.51 | 0.44                   | 32.60             | 38.55 | 33.15 | 3.08                      | 650.0          | 1.24         | 1.15 | 1.23 | 1.16 |
| 700.0          | 5.90                            | 6.22 | 5.72 | 0.50                   | 25.78             | 27.00 | 25.88 | 3.71                      | 700.0          | 1.46         | 1.20 | 1.24 | 1.20 |
| 750.0          | 6.26                            | 6.67 | 6.11 | 0.56                   | 20.52             | 21.25 | 20.66 | 4.53                      | 750.0          | 1.81         | 1.26 | 1.24 | 1.25 |
| 800.0          | 6.89                            | 7.45 | 6.83 | 0.61                   | 16.71             | 17.35 | 16.89 | 5.57                      | 800.0          | 2.39         | 1.32 | 1.21 | 1.29 |

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



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