

# 3 Way-0° Power Splitter/Combiner

RACK-3-ED10901A/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) |      |      |      |
|----------------|---------------------------------|-------|-------|------------------------|-------------------|-------|-------|---------------------------|----------------|--------------|------|------|------|
|                | J1-J2                           | J1-J3 | J1-J4 |                        | J2-J3             | J2-J4 | J3-J4 |                           |                | J1           | J2   | J3   | J4   |
| 500.0          | 5.44                            | 5.56  | 5.44  | 0.13                   | 14.87             | 14.11 | 15.11 | 0.57                      | 500.0          | 1.99         | 1.15 | 1.25 | 1.19 |
| 530.0          | 5.37                            | 5.47  | 5.36  | 0.11                   | 15.54             | 14.62 | 15.82 | 0.63                      | 530.0          | 1.90         | 1.11 | 1.21 | 1.15 |
| 560.0          | 5.32                            | 5.43  | 5.32  | 0.11                   | 16.34             | 15.21 | 16.63 | 0.56                      | 560.0          | 1.81         | 1.08 | 1.17 | 1.12 |
| 590.0          | 5.26                            | 5.36  | 5.25  | 0.11                   | 17.17             | 15.80 | 17.49 | 0.55                      | 590.0          | 1.73         | 1.05 | 1.14 | 1.09 |
| 620.0          | 5.21                            | 5.29  | 5.20  | 0.09                   | 18.11             | 16.48 | 18.49 | 0.59                      | 620.0          | 1.65         | 1.03 | 1.11 | 1.06 |
| 650.0          | 5.16                            | 5.24  | 5.16  | 0.09                   | 19.21             | 17.23 | 19.62 | 0.54                      | 650.0          | 1.57         | 1.04 | 1.08 | 1.04 |
| 680.0          | 5.13                            | 5.19  | 5.11  | 0.08                   | 20.46             | 18.05 | 20.93 | 0.43                      | 680.0          | 1.50         | 1.05 | 1.07 | 1.03 |
| 710.0          | 5.10                            | 5.14  | 5.09  | 0.05                   | 21.92             | 19.00 | 22.49 | 0.49                      | 710.0          | 1.43         | 1.07 | 1.06 | 1.02 |
| 740.0          | 5.07                            | 5.11  | 5.07  | 0.04                   | 23.69             | 20.05 | 24.34 | 0.50                      | 740.0          | 1.37         | 1.09 | 1.06 | 1.03 |
| 770.0          | 5.04                            | 5.09  | 5.04  | 0.05                   | 25.87             | 21.28 | 26.61 | 0.43                      | 770.0          | 1.31         | 1.11 | 1.07 | 1.04 |
| 800.0          | 5.04                            | 5.05  | 5.03  | 0.03                   | 28.47             | 22.71 | 29.24 | 0.50                      | 800.0          | 1.25         | 1.12 | 1.07 | 1.05 |
| 810.0          | 5.03                            | 5.05  | 5.03  | 0.02                   | 29.42             | 23.24 | 30.11 | 0.57                      | 810.0          | 1.23         | 1.12 | 1.07 | 1.05 |
| 820.0          | 5.01                            | 5.04  | 5.02  | 0.02                   | 30.38             | 23.80 | 30.89 | 0.50                      | 820.0          | 1.22         | 1.13 | 1.08 | 1.05 |
| 830.0          | 4.99                            | 5.03  | 5.01  | 0.04                   | 31.22             | 24.37 | 31.41 | 0.54                      | 830.0          | 1.20         | 1.13 | 1.08 | 1.05 |
| 840.0          | 4.99                            | 5.04  | 5.01  | 0.05                   | 31.91             | 24.99 | 31.67 | 0.47                      | 840.0          | 1.18         | 1.13 | 1.08 | 1.06 |
| 850.0          | 4.99                            | 5.04  | 5.00  | 0.04                   | 32.21             | 25.65 | 31.54 | 0.36                      | 850.0          | 1.17         | 1.14 | 1.08 | 1.06 |
| 855.0          | 4.99                            | 5.04  | 5.00  | 0.05                   | 32.21             | 25.99 | 31.35 | 0.30                      | 855.0          | 1.16         | 1.14 | 1.08 | 1.06 |
| 860.0          | 5.00                            | 5.04  | 5.01  | 0.04                   | 32.15             | 26.35 | 31.08 | 0.39                      | 860.0          | 1.16         | 1.14 | 1.08 | 1.06 |
| 865.0          | 5.01                            | 5.04  | 5.02  | 0.04                   | 31.94             | 26.72 | 30.77 | 0.36                      | 865.0          | 1.15         | 1.14 | 1.08 | 1.06 |
| 870.0          | 5.02                            | 5.04  | 5.02  | 0.03                   | 31.66             | 27.08 | 30.41 | 0.41                      | 870.0          | 1.14         | 1.14 | 1.08 | 1.06 |
| 875.0          | 5.02                            | 5.04  | 5.02  | 0.02                   | 31.28             | 27.49 | 29.99 | 0.45                      | 875.0          | 1.14         | 1.14 | 1.08 | 1.06 |
| 880.0          | 5.02                            | 5.04  | 5.03  | 0.02                   | 30.90             | 27.81 | 29.55 | 0.42                      | 880.0          | 1.13         | 1.14 | 1.08 | 1.06 |
| 885.0          | 5.02                            | 5.04  | 5.03  | 0.02                   | 30.43             | 28.22 | 29.11 | 0.44                      | 885.0          | 1.13         | 1.14 | 1.08 | 1.07 |
| 890.0          | 5.02                            | 5.03  | 5.03  | 0.01                   | 29.98             | 28.59 | 28.65 | 0.48                      | 890.0          | 1.13         | 1.14 | 1.08 | 1.07 |
| 895.0          | 5.00                            | 5.02  | 5.03  | 0.03                   | 29.46             | 28.96 | 28.18 | 0.58                      | 895.0          | 1.12         | 1.15 | 1.09 | 1.07 |
| 900.0          | 4.99                            | 5.03  | 5.03  | 0.04                   | 28.99             | 29.31 | 27.74 | 0.57                      | 900.0          | 1.12         | 1.15 | 1.09 | 1.07 |
| 910.0          | 4.98                            | 5.03  | 5.03  | 0.05                   | 28.03             | 30.01 | 26.86 | 0.67                      | 910.0          | 1.12         | 1.15 | 1.09 | 1.07 |
| 920.0          | 4.96                            | 5.02  | 5.02  | 0.07                   | 27.10             | 30.63 | 26.02 | 0.63                      | 920.0          | 1.13         | 1.15 | 1.09 | 1.07 |
| 930.0          | 4.96                            | 5.03  | 5.02  | 0.07                   | 26.24             | 31.02 | 25.23 | 0.54                      | 930.0          | 1.13         | 1.15 | 1.09 | 1.08 |
| 940.0          | 4.97                            | 5.05  | 5.03  | 0.08                   | 25.42             | 31.21 | 24.50 | 0.53                      | 940.0          | 1.15         | 1.15 | 1.09 | 1.08 |
| 950.0          | 4.98                            | 5.05  | 5.03  | 0.07                   | 24.67             | 31.12 | 23.82 | 0.46                      | 950.0          | 1.16         | 1.15 | 1.09 | 1.08 |
| 960.0          | 5.01                            | 5.07  | 5.07  | 0.06                   | 23.99             | 30.81 | 23.19 | 0.50                      | 960.0          | 1.18         | 1.15 | 1.09 | 1.08 |
| 970.0          | 5.01                            | 5.07  | 5.07  | 0.07                   | 23.29             | 30.29 | 22.58 | 0.59                      | 970.0          | 1.20         | 1.15 | 1.09 | 1.09 |
| 980.0          | 5.00                            | 5.08  | 5.08  | 0.08                   | 22.68             | 29.64 | 22.03 | 0.67                      | 980.0          | 1.21         | 1.16 | 1.09 | 1.09 |
| 990.0          | 4.99                            | 5.07  | 5.09  | 0.10                   | 22.08             | 28.92 | 21.49 | 0.62                      | 990.0          | 1.23         | 1.16 | 1.09 | 1.09 |
| 1000.0         | 4.98                            | 5.07  | 5.09  | 0.11                   | 21.52             | 28.13 | 20.96 | 0.65                      | 1000.0         | 1.26         | 1.16 | 1.10 | 1.10 |
| 1050.0         | 5.04                            | 5.18  | 5.18  | 0.14                   | 19.24             | 24.67 | 18.82 | 0.61                      | 1050.0         | 1.39         | 1.16 | 1.10 | 1.11 |
| 1100.0         | 5.06                            | 5.26  | 5.25  | 0.19                   | 17.43             | 21.98 | 17.13 | 0.60                      | 1100.0         | 1.54         | 1.17 | 1.12 | 1.13 |
| 1150.0         | 5.14                            | 5.39  | 5.38  | 0.25                   | 15.98             | 19.93 | 15.76 | 0.66                      | 1150.0         | 1.71         | 1.18 | 1.15 | 1.15 |
| 1200.0         | 5.21                            | 5.53  | 5.52  | 0.32                   | 14.78             | 18.31 | 14.63 | 0.77                      | 1200.0         | 1.87         | 1.19 | 1.18 | 1.17 |
| 1250.0         | 5.32                            | 5.74  | 5.71  | 0.42                   | 13.80             | 17.00 | 13.69 | 0.68                      | 1250.0         | 2.03         | 1.20 | 1.22 | 1.20 |

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



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