

# 3 Way-0° Power Splitter/Combiner

**RACK-3-ED10901/1**

## 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   |
| 700.0          | 5.12                            | 5.12  | 5.12  | 0.01                   | 21.64             | 18.69 | 22.63 | 1.09                      | 700.0          | 1.48         | 1.01 | 1.07 | 1.11 |
| 710.0          | 5.11                            | 5.11  | 5.11  | 0.00                   | 22.17             | 19.02 | 23.20 | 1.10                      | 710.0          | 1.45         | 1.02 | 1.07 | 1.11 |
| 720.0          | 5.09                            | 5.09  | 5.11  | 0.02                   | 22.73             | 19.35 | 23.81 | 1.04                      | 720.0          | 1.43         | 1.02 | 1.07 | 1.10 |
| 730.0          | 5.08                            | 5.08  | 5.09  | 0.01                   | 23.31             | 19.68 | 24.45 | 1.12                      | 730.0          | 1.40         | 1.03 | 1.07 | 1.10 |
| 740.0          | 5.07                            | 5.07  | 5.09  | 0.02                   | 23.93             | 20.04 | 25.10 | 1.06                      | 740.0          | 1.38         | 1.04 | 1.07 | 1.10 |
| 750.0          | 5.06                            | 5.06  | 5.07  | 0.02                   | 24.59             | 20.41 | 25.79 | 0.96                      | 750.0          | 1.36         | 1.04 | 1.07 | 1.10 |
| 760.0          | 5.04                            | 5.05  | 5.06  | 0.02                   | 25.28             | 20.79 | 26.52 | 1.02                      | 760.0          | 1.33         | 1.04 | 1.07 | 1.10 |
| 770.0          | 5.03                            | 5.05  | 5.05  | 0.02                   | 26.03             | 21.19 | 27.24 | 1.00                      | 770.0          | 1.31         | 1.05 | 1.07 | 1.09 |
| 780.0          | 5.03                            | 5.04  | 5.05  | 0.02                   | 26.79             | 21.61 | 27.95 | 0.93                      | 780.0          | 1.29         | 1.05 | 1.07 | 1.09 |
| 790.0          | 5.02                            | 5.03  | 5.04  | 0.03                   | 27.59             | 22.04 | 28.59 | 0.99                      | 790.0          | 1.27         | 1.06 | 1.07 | 1.09 |
| 800.0          | 5.01                            | 5.03  | 5.04  | 0.03                   | 28.39             | 22.50 | 29.18 | 0.89                      | 800.0          | 1.25         | 1.06 | 1.07 | 1.09 |
| 810.0          | 5.01                            | 5.02  | 5.03  | 0.02                   | 29.18             | 22.97 | 29.60 | 0.83                      | 810.0          | 1.23         | 1.06 | 1.07 | 1.09 |
| 820.0          | 5.00                            | 5.02  | 5.03  | 0.03                   | 29.87             | 23.47 | 29.85 | 0.82                      | 820.0          | 1.22         | 1.07 | 1.07 | 1.09 |
| 830.0          | 5.00                            | 5.01  | 5.03  | 0.03                   | 30.45             | 24.00 | 29.82 | 0.77                      | 830.0          | 1.20         | 1.07 | 1.07 | 1.08 |
| 840.0          | 5.00                            | 5.01  | 5.03  | 0.03                   | 30.73             | 24.53 | 29.55 | 0.78                      | 840.0          | 1.19         | 1.07 | 1.07 | 1.08 |
| 850.0          | 4.99                            | 5.01  | 5.03  | 0.04                   | 30.78             | 25.07 | 29.10 | 0.76                      | 850.0          | 1.18         | 1.08 | 1.07 | 1.08 |
| 855.0          | 5.00                            | 5.01  | 5.03  | 0.03                   | 30.68             | 25.36 | 28.82 | 0.71                      | 855.0          | 1.18         | 1.08 | 1.07 | 1.08 |
| 860.0          | 5.00                            | 5.02  | 5.04  | 0.04                   | 30.48             | 25.64 | 28.51 | 0.66                      | 860.0          | 1.17         | 1.08 | 1.07 | 1.08 |
| 865.0          | 5.00                            | 5.01  | 5.04  | 0.04                   | 30.29             | 25.92 | 28.18 | 0.74                      | 865.0          | 1.17         | 1.08 | 1.07 | 1.08 |
| 870.0          | 4.99                            | 5.02  | 5.04  | 0.05                   | 30.00             | 26.22 | 27.84 | 0.71                      | 870.0          | 1.17         | 1.08 | 1.07 | 1.08 |
| 875.0          | 5.00                            | 5.01  | 5.03  | 0.04                   | 29.67             | 26.49 | 27.46 | 0.67                      | 875.0          | 1.17         | 1.08 | 1.07 | 1.08 |
| 880.0          | 5.01                            | 5.02  | 5.04  | 0.04                   | 29.34             | 26.75 | 27.11 | 0.67                      | 880.0          | 1.17         | 1.08 | 1.07 | 1.08 |
| 885.0          | 5.00                            | 5.02  | 5.04  | 0.04                   | 28.96             | 27.03 | 26.73 | 0.64                      | 885.0          | 1.17         | 1.08 | 1.07 | 1.08 |
| 890.0          | 5.00                            | 5.02  | 5.04  | 0.04                   | 28.55             | 27.30 | 26.38 | 0.62                      | 890.0          | 1.17         | 1.09 | 1.07 | 1.08 |
| 895.0          | 5.00                            | 5.01  | 5.04  | 0.04                   | 28.14             | 27.54 | 26.02 | 0.60                      | 895.0          | 1.17         | 1.09 | 1.07 | 1.08 |
| 900.0          | 4.99                            | 5.01  | 5.04  | 0.05                   | 27.74             | 27.80 | 25.66 | 0.59                      | 900.0          | 1.17         | 1.09 | 1.07 | 1.08 |
| 910.0          | 5.00                            | 5.02  | 5.05  | 0.05                   | 26.95             | 28.24 | 24.97 | 0.56                      | 910.0          | 1.18         | 1.09 | 1.07 | 1.07 |
| 920.0          | 5.00                            | 5.02  | 5.05  | 0.05                   | 26.16             | 28.60 | 24.30 | 0.60                      | 920.0          | 1.19         | 1.09 | 1.07 | 1.07 |
| 930.0          | 5.01                            | 5.03  | 5.06  | 0.05                   | 25.39             | 28.82 | 23.66 | 0.53                      | 930.0          | 1.20         | 1.09 | 1.07 | 1.07 |
| 940.0          | 5.01                            | 5.03  | 5.07  | 0.06                   | 24.72             | 28.92 | 23.07 | 0.51                      | 940.0          | 1.22         | 1.10 | 1.07 | 1.07 |
| 950.0          | 5.02                            | 5.04  | 5.09  | 0.06                   | 24.04             | 28.88 | 22.51 | 0.57                      | 950.0          | 1.23         | 1.10 | 1.07 | 1.07 |
| 960.0          | 5.03                            | 5.06  | 5.10  | 0.07                   | 23.39             | 28.69 | 21.97 | 0.53                      | 960.0          | 1.25         | 1.10 | 1.07 | 1.07 |
| 970.0          | 5.04                            | 5.07  | 5.11  | 0.07                   | 22.80             | 28.38 | 21.46 | 0.54                      | 970.0          | 1.27         | 1.10 | 1.07 | 1.07 |
| 980.0          | 5.05                            | 5.08  | 5.12  | 0.07                   | 22.25             | 27.98 | 20.97 | 0.53                      | 980.0          | 1.28         | 1.10 | 1.07 | 1.07 |
| 990.0          | 5.05                            | 5.08  | 5.13  | 0.08                   | 21.71             | 27.52 | 20.51 | 0.56                      | 990.0          | 1.30         | 1.10 | 1.07 | 1.07 |
| 1000.0         | 5.06                            | 5.09  | 5.14  | 0.08                   | 21.21             | 27.00 | 20.08 | 0.57                      | 1000.0         | 1.32         | 1.11 | 1.07 | 1.07 |
| 1010.0         | 5.07                            | 5.10  | 5.16  | 0.09                   | 20.74             | 26.45 | 19.67 | 0.56                      | 1010.0         | 1.35         | 1.11 | 1.07 | 1.07 |
| 1020.0         | 5.08                            | 5.12  | 5.18  | 0.10                   | 20.28             | 25.91 | 19.27 | 0.55                      | 1020.0         | 1.37         | 1.11 | 1.07 | 1.07 |
| 1030.0         | 5.10                            | 5.13  | 5.20  | 0.10                   | 19.87             | 25.39 | 18.90 | 0.58                      | 1030.0         | 1.39         | 1.11 | 1.07 | 1.07 |
| 1040.0         | 5.10                            | 5.14  | 5.21  | 0.10                   | 19.44             | 24.83 | 18.53 | 0.58                      | 1040.0         | 1.41         | 1.12 | 1.07 | 1.07 |
| 1050.0         | 5.12                            | 5.16  | 5.23  | 0.11                   | 19.06             | 24.33 | 18.19 | 0.62                      | 1050.0         | 1.43         | 1.12 | 1.07 | 1.08 |

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



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