

# 3 Way-0° Power Splitter/Combiner

PSC-ED2981B/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               | 2-3   |                           |                | S            | 1    | 2    | 3    |
| 1.0            | 5.06                            | 5.06 | 5.06 | 0.00                   | 30.97             | 31.08 | 0.03                      | 1.0            | 1.10         | 1.21 | 1.21 | 1.21 |
| 3.0            | 5.04                            | 5.04 | 5.04 | 0.00                   | 35.62             | 35.47 | 0.02                      | 3.0            | 1.07         | 1.11 | 1.12 | 1.12 |
| 5.0            | 5.04                            | 5.04 | 5.03 | 0.00                   | 36.60             | 36.38 | 0.05                      | 5.0            | 1.05         | 1.09 | 1.09 | 1.09 |
| 16.3           | 5.06                            | 5.06 | 5.07 | 0.01                   | 35.74             | 35.49 | 0.15                      | 16.3           | 1.04         | 1.06 | 1.06 | 1.06 |
| 27.5           | 5.08                            | 5.08 | 5.09 | 0.00                   | 34.79             | 34.50 | 0.17                      | 27.5           | 1.05         | 1.06 | 1.06 | 1.06 |
| 38.8           | 5.09                            | 5.10 | 5.10 | 0.01                   | 33.94             | 33.59 | 0.21                      | 38.8           | 1.06         | 1.06 | 1.06 | 1.06 |
| 50.0           | 5.10                            | 5.10 | 5.10 | 0.00                   | 33.08             | 32.68 | 0.31                      | 50.0           | 1.07         | 1.06 | 1.06 | 1.06 |
| 100.0          | 5.16                            | 5.15 | 5.17 | 0.01                   | 29.77             | 29.13 | 0.56                      | 100.0          | 1.12         | 1.06 | 1.05 | 1.05 |
| 150.0          | 5.22                            | 5.20 | 5.22 | 0.02                   | 27.24             | 26.50 | 0.88                      | 150.0          | 1.17         | 1.06 | 1.05 | 1.05 |
| 200.0          | 5.28                            | 5.25 | 5.28 | 0.03                   | 25.37             | 24.56 | 1.14                      | 200.0          | 1.22         | 1.05 | 1.05 | 1.04 |
| 250.0          | 5.33                            | 5.29 | 5.34 | 0.05                   | 23.94             | 23.10 | 1.38                      | 250.0          | 1.26         | 1.05 | 1.04 | 1.03 |
| 300.0          | 5.38                            | 5.32 | 5.38 | 0.06                   | 22.86             | 21.98 | 1.70                      | 300.0          | 1.29         | 1.04 | 1.03 | 1.02 |
| 350.0          | 5.46                            | 5.37 | 5.46 | 0.09                   | 22.09             | 21.18 | 1.97                      | 350.0          | 1.31         | 1.04 | 1.02 | 1.01 |
| 400.0          | 5.49                            | 5.39 | 5.49 | 0.11                   | 21.53             | 20.59 | 2.25                      | 400.0          | 1.33         | 1.03 | 1.01 | 1.01 |
| 450.0          | 5.55                            | 5.42 | 5.55 | 0.13                   | 21.19             | 20.21 | 2.41                      | 450.0          | 1.33         | 1.03 | 1.02 | 1.02 |
| 500.0          | 5.61                            | 5.44 | 5.61 | 0.17                   | 21.04             | 20.00 | 2.67                      | 500.0          | 1.32         | 1.04 | 1.03 | 1.04 |
| 550.0          | 5.64                            | 5.45 | 5.65 | 0.20                   | 21.02             | 19.90 | 2.93                      | 550.0          | 1.30         | 1.07 | 1.05 | 1.06 |
| 600.0          | 5.73                            | 5.48 | 5.72 | 0.24                   | 21.16             | 19.94 | 3.11                      | 600.0          | 1.29         | 1.10 | 1.08 | 1.08 |
| 650.0          | 5.77                            | 5.49 | 5.78 | 0.28                   | 21.19             | 19.88 | 3.30                      | 650.0          | 1.28         | 1.13 | 1.10 | 1.10 |
| 700.0          | 5.89                            | 5.56 | 5.87 | 0.33                   | 20.99             | 19.63 | 3.43                      | 700.0          | 1.29         | 1.17 | 1.13 | 1.12 |
| 750.0          | 6.05                            | 5.66 | 6.03 | 0.39                   | 20.33             | 18.99 | 3.67                      | 750.0          | 1.33         | 1.21 | 1.16 | 1.14 |
| 773.3          | 6.14                            | 5.71 | 6.11 | 0.42                   | 19.79             | 18.49 | 3.79                      | 773.3          | 1.36         | 1.22 | 1.17 | 1.15 |
| 796.7          | 6.21                            | 5.75 | 6.19 | 0.46                   | 19.05             | 17.83 | 3.89                      | 796.7          | 1.40         | 1.24 | 1.18 | 1.16 |
| 820.0          | 6.28                            | 5.80 | 6.26 | 0.48                   | 18.22             | 17.09 | 3.91                      | 820.0          | 1.45         | 1.25 | 1.19 | 1.16 |

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

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