

# 2 Way-90° Power Splitter/Combiner

QCS-ED14039/2

## Typical Performance Data

| FREQ.  | TOTAL LOSS <sup>1</sup> |      | AMP. UNBAL. | ISOLATION | PHASE UNBAL. | FREQ.  | VSWR |      |      |
|--------|-------------------------|------|-------------|-----------|--------------|--------|------|------|------|
| (MHz)  | (dB)                    |      | (dB)        | (dB)      | (Deg.)       | (MHz)  | (:1) |      |      |
|        | S-1                     | S-2  |             | 1-2       |              |        | S    | 1    | 2    |
| 4000.0 | 3.51                    | 3.73 | 0.22        | 16.82     | 91.24        | 4000.0 | 1.34 | 1.29 | 1.28 |
| 4100.0 | 3.60                    | 3.66 | 0.06        | 16.51     | 91.15        | 4100.0 | 1.35 | 1.30 | 1.29 |
| 4200.0 | 3.69                    | 3.60 | 0.08        | 16.26     | 91.04        | 4200.0 | 1.36 | 1.32 | 1.29 |
| 4300.0 | 3.76                    | 3.55 | 0.21        | 16.07     | 90.92        | 4300.0 | 1.37 | 1.34 | 1.30 |
| 4400.0 | 3.84                    | 3.51 | 0.33        | 15.88     | 90.78        | 4400.0 | 1.37 | 1.35 | 1.30 |
| 4500.0 | 3.89                    | 3.46 | 0.43        | 15.85     | 90.62        | 4500.0 | 1.36 | 1.36 | 1.30 |
| 4600.0 | 3.94                    | 3.42 | 0.52        | 15.79     | 90.50        | 4600.0 | 1.37 | 1.36 | 1.30 |
| 4700.0 | 3.99                    | 3.39 | 0.60        | 15.75     | 90.34        | 4700.0 | 1.36 | 1.37 | 1.30 |
| 4800.0 | 4.02                    | 3.36 | 0.66        | 15.74     | 90.24        | 4800.0 | 1.35 | 1.36 | 1.30 |
| 4900.0 | 4.05                    | 3.34 | 0.71        | 15.79     | 90.16        | 4900.0 | 1.34 | 1.36 | 1.29 |
| 5000.0 | 4.06                    | 3.31 | 0.74        | 15.95     | 90.11        | 5000.0 | 1.33 | 1.35 | 1.28 |
| 5050.0 | 4.06                    | 3.31 | 0.76        | 15.96     | 90.14        | 5050.0 | 1.32 | 1.34 | 1.28 |
| 5100.0 | 4.07                    | 3.30 | 0.77        | 16.06     | 90.18        | 5100.0 | 1.32 | 1.34 | 1.27 |
| 5200.0 | 4.08                    | 3.29 | 0.79        | 16.21     | 90.29        | 5200.0 | 1.29 | 1.32 | 1.26 |
| 5300.0 | 4.08                    | 3.28 | 0.80        | 16.46     | 90.41        | 5300.0 | 1.28 | 1.30 | 1.25 |
| 5400.0 | 4.08                    | 3.27 | 0.81        | 16.81     | 90.62        | 5400.0 | 1.26 | 1.28 | 1.24 |
| 5500.0 | 4.08                    | 3.27 | 0.81        | 17.14     | 90.85        | 5500.0 | 1.24 | 1.25 | 1.23 |
| 5600.0 | 4.08                    | 3.27 | 0.81        | 17.47     | 91.08        | 5600.0 | 1.22 | 1.23 | 1.23 |
| 5700.0 | 4.07                    | 3.27 | 0.80        | 17.87     | 91.38        | 5700.0 | 1.21 | 1.20 | 1.21 |
| 5800.0 | 4.06                    | 3.28 | 0.79        | 18.43     | 91.66        | 5800.0 | 1.18 | 1.18 | 1.19 |
| 5900.0 | 4.07                    | 3.28 | 0.79        | 18.94     | 91.96        | 5900.0 | 1.17 | 1.15 | 1.19 |
| 6000.0 | 4.07                    | 3.29 | 0.78        | 19.71     | 92.25        | 6000.0 | 1.14 | 1.13 | 1.16 |
| 6100.0 | 4.07                    | 3.30 | 0.77        | 20.37     | 92.61        | 6100.0 | 1.13 | 1.09 | 1.14 |
| 6200.0 | 4.07                    | 3.31 | 0.76        | 21.55     | 93.02        | 6200.0 | 1.10 | 1.07 | 1.12 |
| 6300.0 | 4.08                    | 3.33 | 0.75        | 22.65     | 93.35        | 6300.0 | 1.09 | 1.05 | 1.11 |
| 6400.0 | 4.10                    | 3.36 | 0.74        | 24.16     | 93.67        | 6400.0 | 1.07 | 1.03 | 1.08 |
| 6500.0 | 4.12                    | 3.38 | 0.73        | 25.97     | 93.94        | 6500.0 | 1.06 | 1.02 | 1.07 |
| 6600.0 | 4.13                    | 3.40 | 0.73        | 28.47     | 94.06        | 6600.0 | 1.04 | 1.03 | 1.04 |
| 6700.0 | 4.11                    | 3.42 | 0.70        | 31.65     | 94.12        | 6700.0 | 1.02 | 1.04 | 1.01 |
| 6800.0 | 4.09                    | 3.44 | 0.65        | 37.16     | 94.21        | 6800.0 | 1.01 | 1.07 | 1.02 |
| 6900.0 | 4.07                    | 3.48 | 0.59        | 42.58     | 94.27        | 6900.0 | 1.03 | 1.09 | 1.05 |
| 7000.0 | 4.05                    | 3.52 | 0.53        | 35.77     | 94.29        | 7000.0 | 1.05 | 1.10 | 1.08 |
| 7050.0 | 4.03                    | 3.54 | 0.49        | 32.70     | 94.30        | 7050.0 | 1.06 | 1.11 | 1.10 |
| 7100.0 | 4.02                    | 3.57 | 0.45        | 30.26     | 94.27        | 7100.0 | 1.07 | 1.12 | 1.12 |
| 7150.0 | 4.00                    | 3.60 | 0.40        | 28.50     | 94.27        | 7150.0 | 1.08 | 1.12 | 1.14 |
| 7200.0 | 3.99                    | 3.64 | 0.35        | 26.80     | 94.26        | 7200.0 | 1.09 | 1.13 | 1.16 |
| 7250.0 | 3.97                    | 3.68 | 0.29        | 25.58     | 94.25        | 7250.0 | 1.10 | 1.14 | 1.18 |
| 7300.0 | 3.95                    | 3.71 | 0.23        | 24.49     | 94.19        | 7300.0 | 1.11 | 1.14 | 1.20 |
| 7350.0 | 3.92                    | 3.76 | 0.16        | 23.25     | 94.16        | 7350.0 | 1.12 | 1.15 | 1.23 |
| 7400.0 | 3.90                    | 3.81 | 0.09        | 22.32     | 94.15        | 7400.0 | 1.13 | 1.15 | 1.25 |
| 7450.0 | 3.87                    | 3.87 | 0.01        | 21.52     | 94.12        | 7450.0 | 1.14 | 1.16 | 1.29 |
| 7500.0 | 3.85                    | 3.92 | 0.07        | 20.77     | 94.11        | 7500.0 | 1.15 | 1.16 | 1.31 |
| 7550.0 | 3.82                    | 3.99 | 0.16        | 19.97     | 94.09        | 7550.0 | 1.17 | 1.16 | 1.34 |
| 7600.0 | 3.79                    | 4.06 | 0.26        | 19.27     | 94.11        | 7600.0 | 1.18 | 1.17 | 1.38 |
| 7650.0 | 3.76                    | 4.13 | 0.37        | 18.65     | 94.09        | 7650.0 | 1.21 | 1.18 | 1.40 |
| 7700.0 | 3.73                    | 4.21 | 0.48        | 18.13     | 94.14        | 7700.0 | 1.22 | 1.19 | 1.44 |
| 7750.0 | 3.70                    | 4.30 | 0.60        | 17.59     | 94.20        | 7750.0 | 1.24 | 1.20 | 1.48 |
| 7800.0 | 3.67                    | 4.40 | 0.73        | 17.08     | 94.26        | 7800.0 | 1.26 | 1.21 | 1.52 |
| 7850.0 | 3.64                    | 4.50 | 0.87        | 16.57     | 94.38        | 7850.0 | 1.29 | 1.23 | 1.56 |
| 7900.0 | 3.61                    | 4.61 | 1.01        | 16.14     | 94.57        | 7900.0 | 1.32 | 1.24 | 1.61 |
| 7950.0 | 3.57                    | 4.72 | 1.15        | 15.80     | 94.78        | 7950.0 | 1.33 | 1.26 | 1.65 |
| 8000.0 | 3.55                    | 4.85 | 1.31        | 15.41     | 94.99        | 8000.0 | 1.36 | 1.28 | 1.70 |

<sup>1</sup>Total Loss = Insertion Loss + 3dB Splitter Loss



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