

# 2 Way-90° Power Splitter/Combiner ADPQ-ED10603/1

## Typical Performance Data

| FREQ.<br>(MHz) | TOTAL LOSS <sup>1</sup> |      |      | AMP.<br>UNBAL.<br>(dB) | ISOLATION<br>(dB)<br>1-2 | PHASE<br>UNBAL.<br>(deg.) | FREQ.<br>(MHz) | VSWR |           |      |
|----------------|-------------------------|------|------|------------------------|--------------------------|---------------------------|----------------|------|-----------|------|
|                | S-1                     | S-2  | AVG. |                        |                          |                           |                | S    | (:1)<br>1 | 2    |
| 70.0           | 4.16                    | 2.34 | 3.25 | 1.82                   | 21.48                    | 89.15                     | 70.0           | 1.21 | 1.21      | 1.21 |
| 80.0           | 3.68                    | 2.71 | 3.20 | 0.97                   | 21.50                    | 89.20                     | 80.0           | 1.21 | 1.21      | 1.21 |
| 90.0           | 3.33                    | 3.02 | 3.18 | 0.31                   | 21.65                    | 89.31                     | 90.0           | 1.20 | 1.20      | 1.21 |
| 91.0           | 3.30                    | 3.05 | 3.18 | 0.25                   | 21.66                    | 89.31                     | 91.0           | 1.20 | 1.20      | 1.21 |
| 92.0           | 3.27                    | 3.08 | 3.18 | 0.19                   | 21.69                    | 89.34                     | 92.0           | 1.20 | 1.20      | 1.21 |
| 93.0           | 3.25                    | 3.11 | 3.18 | 0.14                   | 21.70                    | 89.35                     | 93.0           | 1.20 | 1.20      | 1.21 |
| 94.0           | 3.22                    | 3.14 | 3.18 | 0.08                   | 21.73                    | 89.34                     | 94.0           | 1.20 | 1.20      | 1.21 |
| 95.0           | 3.19                    | 3.16 | 3.18 | 0.03                   | 21.76                    | 89.36                     | 95.0           | 1.20 | 1.20      | 1.21 |
| 96.0           | 3.17                    | 3.19 | 3.18 | 0.02                   | 21.78                    | 89.38                     | 96.0           | 1.20 | 1.20      | 1.21 |
| 97.0           | 3.15                    | 3.21 | 3.18 | 0.07                   | 21.80                    | 89.40                     | 97.0           | 1.20 | 1.20      | 1.21 |
| 98.0           | 3.13                    | 3.24 | 3.19 | 0.11                   | 21.83                    | 89.43                     | 98.0           | 1.20 | 1.20      | 1.21 |
| 99.0           | 3.10                    | 3.26 | 3.18 | 0.16                   | 21.86                    | 89.44                     | 99.0           | 1.20 | 1.20      | 1.21 |
| 100.0          | 3.08                    | 3.28 | 3.18 | 0.20                   | 21.89                    | 89.44                     | 100.0          | 1.20 | 1.20      | 1.21 |
| 110.0          | 2.92                    | 3.48 | 3.20 | 0.55                   | 22.18                    | 89.64                     | 110.0          | 1.19 | 1.19      | 1.20 |
| 120.0          | 2.85                    | 3.61 | 3.23 | 0.76                   | 22.55                    | 89.90                     | 120.0          | 1.18 | 1.19      | 1.20 |
| 130.0          | 2.83                    | 3.65 | 3.24 | 0.82                   | 22.92                    | 90.18                     | 130.0          | 1.18 | 1.19      | 1.20 |
| 140.0          | 2.90                    | 3.62 | 3.26 | 0.72                   | 23.18                    | 90.60                     | 140.0          | 1.17 | 1.18      | 1.20 |
| 150.0          | 3.07                    | 3.50 | 3.29 | 0.43                   | 23.11                    | 91.16                     | 150.0          | 1.17 | 1.18      | 1.21 |
| 151.0          | 3.09                    | 3.48 | 3.29 | 0.39                   | 23.07                    | 91.20                     | 151.0          | 1.17 | 1.18      | 1.21 |
| 152.0          | 3.11                    | 3.46 | 3.29 | 0.35                   | 23.02                    | 91.29                     | 152.0          | 1.17 | 1.18      | 1.21 |
| 153.0          | 3.13                    | 3.44 | 3.29 | 0.31                   | 22.97                    | 91.36                     | 153.0          | 1.17 | 1.18      | 1.21 |
| 154.0          | 3.16                    | 3.42 | 3.29 | 0.26                   | 22.90                    | 91.44                     | 154.0          | 1.17 | 1.18      | 1.21 |
| 155.0          | 3.19                    | 3.40 | 3.30 | 0.21                   | 22.83                    | 91.51                     | 155.0          | 1.17 | 1.18      | 1.21 |
| 156.0          | 3.22                    | 3.38 | 3.30 | 0.15                   | 22.74                    | 91.61                     | 156.0          | 1.17 | 1.18      | 1.21 |
| 157.0          | 3.25                    | 3.36 | 3.31 | 0.10                   | 22.64                    | 91.71                     | 157.0          | 1.17 | 1.18      | 1.21 |
| 158.0          | 3.29                    | 3.33 | 3.31 | 0.04                   | 22.54                    | 91.79                     | 158.0          | 1.17 | 1.18      | 1.21 |
| 159.0          | 3.32                    | 3.31 | 3.32 | 0.01                   | 22.42                    | 91.89                     | 159.0          | 1.17 | 1.18      | 1.21 |
| 160.0          | 3.36                    | 3.28 | 3.32 | 0.08                   | 22.30                    | 92.00                     | 160.0          | 1.17 | 1.18      | 1.22 |
| 170.0          | 3.86                    | 2.97 | 3.42 | 0.89                   | 20.40                    | 93.37                     | 170.0          | 1.18 | 1.19      | 1.24 |

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

