

# Directional Coupler

## RACK-ED10942A/1

### Typical Performance Data

| FREQUENCY<br>(MHz) | INSERTION<br>LOSS<br>(dB) | COUPLING<br>(dB) | DIRECTIVITY<br>(dB) | RETURN LOSS |             |       |
|--------------------|---------------------------|------------------|---------------------|-------------|-------------|-------|
|                    |                           |                  |                     | IN          | (dB)<br>OUT | CPL   |
| 1750.0             | 0.17                      | 40.27            | 24.53               | 33.86       | 24.59       | 35.40 |
| 1755.0             | 0.16                      | 40.24            | 24.51               | 34.01       | 24.60       | 35.45 |
| 1760.0             | 0.16                      | 40.24            | 24.46               | 34.20       | 24.60       | 35.57 |
| 1765.0             | 0.16                      | 40.23            | 24.43               | 34.38       | 24.61       | 35.73 |
| 1770.0             | 0.16                      | 40.22            | 24.41               | 34.59       | 24.62       | 35.93 |
| 1775.0             | 0.15                      | 40.21            | 24.43               | 34.81       | 24.64       | 36.18 |
| 1780.0             | 0.15                      | 40.20            | 24.45               | 35.02       | 24.65       | 36.41 |
| 1785.0             | 0.15                      | 40.23            | 24.40               | 35.28       | 24.67       | 36.54 |
| 1790.0             | 0.15                      | 40.21            | 24.44               | 35.54       | 24.69       | 36.61 |
| 1795.0             | 0.16                      | 40.21            | 24.45               | 35.81       | 24.71       | 36.68 |
| 1800.0             | 0.17                      | 40.21            | 24.46               | 36.10       | 24.74       | 36.76 |
| 1805.0             | 0.17                      | 40.19            | 24.49               | 36.38       | 24.76       | 36.85 |
| 1810.0             | 0.17                      | 40.21            | 24.49               | 36.67       | 24.79       | 37.13 |
| 1815.0             | 0.18                      | 40.15            | 24.53               | 36.96       | 24.83       | 37.42 |
| 1820.0             | 0.18                      | 40.14            | 24.53               | 37.25       | 24.87       | 37.70 |
| 1825.0             | 0.18                      | 40.12            | 24.56               | 37.53       | 24.91       | 37.95 |
| 1830.0             | 0.18                      | 40.06            | 24.56               | 37.79       | 24.95       | 38.05 |
| 1835.0             | 0.17                      | 40.06            | 24.53               | 38.06       | 24.99       | 38.09 |
| 1840.0             | 0.15                      | 40.01            | 24.58               | 38.30       | 25.05       | 38.04 |
| 1845.0             | 0.15                      | 40.00            | 24.53               | 38.56       | 25.10       | 38.04 |
| 1850.0             | 0.16                      | 39.97            | 24.53               | 38.81       | 25.15       | 38.08 |
| 1855.0             | 0.17                      | 39.96            | 24.53               | 39.09       | 25.21       | 38.25 |
| 1860.0             | 0.18                      | 39.95            | 24.54               | 39.35       | 25.26       | 38.47 |
| 1865.0             | 0.18                      | 39.94            | 24.56               | 39.62       | 25.31       | 38.74 |
| 1870.0             | 0.17                      | 39.95            | 24.57               | 39.92       | 25.37       | 38.99 |
| 1875.0             | 0.15                      | 39.94            | 24.59               | 40.29       | 25.43       | 39.18 |
| 1880.0             | 0.15                      | 39.94            | 24.61               | 40.64       | 25.49       | 39.34 |
| 1885.0             | 0.14                      | 39.94            | 24.62               | 41.07       | 25.55       | 39.44 |
| 1890.0             | 0.15                      | 39.92            | 24.64               | 41.52       | 25.62       | 39.72 |
| 1895.0             | 0.16                      | 39.93            | 24.64               | 42.05       | 25.69       | 40.00 |
| 1900.0             | 0.17                      | 39.90            | 24.70               | 42.53       | 25.75       | 40.38 |
| 1905.0             | 0.18                      | 39.90            | 24.68               | 43.11       | 25.82       | 40.81 |
| 1910.0             | 0.19                      | 39.88            | 24.69               | 43.71       | 25.89       | 41.26 |
| 1915.0             | 0.19                      | 39.86            | 24.69               | 44.29       | 25.96       | 41.65 |
| 1920.0             | 0.18                      | 39.83            | 24.72               | 44.86       | 26.04       | 41.79 |
| 1925.0             | 0.18                      | 39.81            | 24.73               | 45.47       | 26.12       | 41.85 |
| 1930.0             | 0.17                      | 39.78            | 24.80               | 45.93       | 26.20       | 41.86 |
| 1935.0             | 0.17                      | 39.77            | 24.81               | 46.23       | 26.29       | 41.80 |
| 1940.0             | 0.16                      | 39.76            | 24.84               | 46.48       | 26.38       | 41.85 |
| 1945.0             | 0.16                      | 39.73            | 24.87               | 46.63       | 26.48       | 41.84 |
| 1950.0             | 0.17                      | 39.70            | 24.90               | 46.58       | 26.57       | 41.87 |