# Bi-Directional Coupler BDCA1-6-22+

## *Typical Performance Data*

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = +25°C

| FREQ. (MHz) | INSERTION LOSS (dB) | | COUPLING (dB) | | DIRECTIVITY (dB) | | RETURN LOSS (dB) | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | IN-OUT | FWD-REV | IN-FWD | OUT-REV | IN-REV | OUT-FWD | IN | OUT | FWD | REV |
| 500 | 0.53 | 0.52 | 11.72 | 11.73 | 18.07 | 18.18 | 24.11 | 24.10 | 25.66 | 25.54 |
| 600 | 0.67 | 0.66 | 10.45 | 10.46 | 18.49 | 18.56 | 23.08 | 23.23 | 24.69 | 24.73 |
| 700 | 0.81 | 0.80 | 9.45 | 9.45 | 19.00 | 19.13 | 22.61 | 22.60 | 24.18 | 24.24 |
| 800 | 0.95 | 0.94 | 8.65 | 8.65 | 19.71 | 19.83 | 22.43 | 22.46 | 24.07 | 24.22 |
| 900 | 1.09 | 1.07 | 8.00 | 8.00 | 20.55 | 20.70 | 22.56 | 22.50 | 24.41 | 24.66 |
| 925 | 1.12 | 1.11 | 7.86 | 7.86 | 20.77 | 20.92 | 22.70 | 22.60 | 24.56 | 24.71 |
| 940 | 1.14 | 1.12 | 7.78 | 7.78 | 20.92 | 21.06 | 22.76 | 22.67 | 24.68 | 24.83 |
| 950 | 1.15 | 1.13 | 7.72 | 7.73 | 21.02 | 21.17 | 22.83 | 22.74 | 24.77 | 24.96 |
| 960 | 1.16 | 1.15 | 7.67 | 7.68 | 21.14 | 21.29 | 22.90 | 22.82 | 24.86 | 25.05 |
| 1000 | 1.21 | 1.20 | 7.48 | 7.48 | 21.61 | 21.81 | 23.17 | 23.12 | 25.24 | 25.34 |
| 1050 | 1.27 | 1.26 | 7.25 | 7.25 | 22.17 | 22.36 | 23.59 | 23.42 | 25.71 | 25.85 |
| 1100 | 1.33 | 1.32 | 7.05 | 7.06 | 22.79 | 23.02 | 24.01 | 23.85 | 26.41 | 26.56 |
| 1150 | 1.38 | 1.37 | 6.87 | 6.87 | 23.56 | 23.87 | 24.67 | 24.48 | 27.38 | 27.28 |
| 1200 | 1.43 | 1.42 | 6.71 | 6.72 | 24.38 | 24.66 | 25.63 | 25.32 | 28.37 | 27.96 |
| 1250 | 1.48 | 1.47 | 6.57 | 6.57 | 25.32 | 25.44 | 26.54 | 26.12 | 29.63 | 28.97 |
| 1300 | 1.52 | 1.51 | 6.45 | 6.45 | 26.35 | 26.47 | 27.67 | 27.08 | 31.45 | 30.16 |
| 1350 | 1.56 | 1.55 | 6.34 | 6.35 | 27.61 | 27.52 | 29.11 | 28.25 | 33.82 | 31.12 |
| 1400 | 1.59 | 1.58 | 6.25 | 6.26 | 28.95 | 28.62 | 31.32 | 29.83 | 37.08 | 31.96 |
| 1450 | 1.62 | 1.62 | 6.18 | 6.19 | 30.41 | 29.37 | 33.81 | 31.69 | 41.87 | 32.63 |
| 1500 | 1.65 | 1.65 | 6.13 | 6.13 | 31.72 | 29.90 | 37.00 | 33.40 | 50.98 | 32.34 |
| 1550 | 1.67 | 1.67 | 6.09 | 6.10 | 32.54 | 30.09 | 39.77 | 34.59 | 42.39 | 31.42 |
| 1600 | 1.69 | 1.69 | 6.06 | 6.07 | 32.38 | 29.56 | 38.12 | 34.26 | 36.68 | 30.33 |
| 1650 | 1.71 | 1.71 | 6.06 | 6.06 | 31.61 | 28.67 | 34.34 | 32.70 | 33.05 | 29.03 |
| 1700 | 1.72 | 1.72 | 6.06 | 6.07 | 30.06 | 27.52 | 31.46 | 30.84 | 30.44 | 27.55 |
| 1750 | 1.73 | 1.72 | 6.09 | 6.09 | 28.63 | 26.32 | 29.09 | 29.05 | 28.37 | 26.25 |
| 1800 | 1.73 | 1.73 | 6.12 | 6.13 | 27.05 | 25.01 | 27.18 | 27.35 | 26.62 | 25.09 |
| 1850 | 1.73 | 1.73 | 6.18 | 6.18 | 25.64 | 23.90 | 25.59 | 25.82 | 25.19 | 24.07 |
| 1900 | 1.72 | 1.72 | 6.24 | 6.25 | 24.33 | 22.87 | 24.20 | 24.54 | 24.02 | 23.11 |
| 1950 | 1.71 | 1.71 | 6.32 | 6.33 | 23.21 | 21.84 | 23.08 | 23.49 | 23.01 | 22.33 |
| 2000 | 1.70 | 1.70 | 6.42 | 6.42 | 22.22 | 20.92 | 22.14 | 22.55 | 22.13 | 21.55 |
| 2050 | 1.68 | 1.68 | 6.54 | 6.54 | 21.22 | 19.95 | 21.30 | 21.73 | 21.34 | 20.80 |
| 2100 | 1.66 | 1.66 | 6.66 | 6.66 | 20.24 | 19.17 | 20.50 | 20.87 | 20.62 | 20.14 |
| 2150 | 1.64 | 1.65 | 6.80 | 6.81 | 19.35 | 18.25 | 19.83 | 20.22 | 20.05 | 19.63 |
| 2190 | 1.63 | 1.63 | 6.93 | 6.93 | 18.65 | 17.57 | 19.47 | 19.84 | 19.68 | 19.13 |
| 2200 | 1.62 | 1.62 | 6.98 | 6.99 | 18.37 | 17.43 | 19.46 | 19.86 | 19.64 | 19.15 |
| 2210 | 1.60 | 1.61 | 7.00 | 7.01 | 18.41 | 17.39 | 19.31 | 19.68 | 19.46 | 19.00 |
| 2225 | 1.60 | 1.61 | 7.05 | 7.05 | 18.15 | 17.10 | 19.13 | 19.50 | 19.27 | 18.83 |
| 2250 | 1.58 | 1.58 | 7.14 | 7.15 | 17.82 | 16.79 | 18.95 | 19.24 | 19.08 | 18.57 |
| 2300 | 1.56 | 1.56 | 7.33 | 7.33 | 17.01 | 15.94 | 18.47 | 18.79 | 18.62 | 18.12 |
| 2400 | 1.48 | 1.48 | 7.76 | 7.77 | 15.63 | 14.76 | 17.98 | 18.19 | 18.00 | 17.45 |
| 2500 | 1.40 | 1.41 | 8.26 | 8.29 | 14.25 | 13.38 | 17.52 | 17.77 | 17.48 | 16.98 |
| 2600 | 1.32 | 1.33 | 8.89 | 8.94 | 12.79 | 11.98 | 17.38 | 17.70 | 17.32 | 16.73 |
| 2700 | 1.23 | 1.24 | 9.61 | 9.63 | 11.62 | 10.66 | 17.22 | 17.62 | 17.18 | 16.57 |
| 2800 | 1.16 | 1.17 | 10.58 | 10.58 | 9.88 | 8.96 | 17.41 | 17.87 | 17.36 | 16.63 |
| 2900 | 1.05 | 1.06 | 11.63 | 11.63 | 8.63 | 7.64 | 17.35 | 18.11 | 17.40 | 16.78 |
| 3000 | 0.98 | 1.00 | 13.05 | 12.96 | 6.88 | 5.86 | 17.52 | 18.42 | 17.41 | 16.78 |
| 3100 | 0.91 | 0.92 | 14.95 | 14.83 | 4.45 | 3.55 | 17.64 | 18.77 | 17.72 | 17.23 |
| 3200 | 0.85 | 0.87 | 17.36 | 17.17 | 1.76 | 0.95 | 17.48 | 18.55 | 17.59 | 17.29 |
| 3300 | 0.84 | 0.83 | 20.81 | 20.36 | 1.84 | 2.73 | 17.13 | 18.06 | 17.46 | 17.36 |
| 3400 | 0.87 | 0.86 | 26.31 | 25.19 | 7.15 | 8.48 | 16.75 | 17.04 | 16.89 | 17.13 |
| 3500 | 0.92 | 0.87 | 29.02 | 28.78 | 11.27 | 11.46 | 16.18 | 15.99 | 16.45 | 16.78 |
| 3750 | 1.10 | 1.04 | 17.55 | 18.32 | 1.87 | 0.45 | 14.38 | 13.51 | 14.73 | 15.10 |
| 4000 | 1.40 | 1.33 | 13.14 | 13.67 | 2.24 | 3.92 | 12.72 | 11.59 | 12.98 | 13.25 |

# Bi-Directional Coupler BDCA1-6-22+

## *Typical Performance Data*

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = -55°C

| FREQ. (MHz) | INSERTION LOSS (dB) | | COUPLING (dB) | | DIRECTIVITY (dB) | | RETURN LOSS (dB) | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | IN-OUT | FWD-REV | IN-FWD | OUT-REV | IN-REV | OUT-FWD | IN | OUT | FWD | REV |
| 500 | 0.45 | 0.44 | 11.71 | 11.67 | 18.57 | 18.58 | 24.96 | 24.75 | 26.70 | 26.56 |
| 600 | 0.58 | 0.57 | 10.43 | 10.39 | 19.11 | 18.89 | 23.94 | 23.98 | 25.40 | 25.42 |
| 700 | 0.71 | 0.70 | 9.41 | 9.37 | 19.65 | 19.49 | 23.47 | 23.37 | 25.03 | 25.02 |
| 800 | 0.85 | 0.84 | 8.61 | 8.55 | 20.21 | 20.12 | 23.18 | 23.16 | 24.49 | 24.58 |
| 900 | 0.98 | 0.97 | 7.95 | 7.89 | 21.08 | 21.05 | 23.33 | 23.24 | 24.69 | 24.91 |
| 925 | 1.00 | 1.00 | 7.81 | 7.75 | 21.34 | 21.24 | 23.50 | 23.40 | 24.83 | 24.93 |
| 940 | 1.02 | 1.02 | 7.73 | 7.66 | 21.49 | 21.35 | 23.56 | 23.48 | 24.93 | 25.00 |
| 950 | 1.03 | 1.03 | 7.67 | 7.61 | 21.58 | 21.43 | 23.61 | 23.54 | 24.98 | 25.07 |
| 960 | 1.05 | 1.04 | 7.62 | 7.56 | 21.69 | 21.51 | 23.67 | 23.62 | 25.02 | 25.10 |
| 1000 | 1.09 | 1.09 | 7.42 | 7.36 | 22.12 | 21.94 | 23.86 | 23.89 | 25.23 | 25.17 |
| 1050 | 1.15 | 1.14 | 7.19 | 7.13 | 22.51 | 22.56 | 24.06 | 23.92 | 25.70 | 25.78 |
| 1100 | 1.20 | 1.20 | 6.99 | 6.92 | 23.11 | 23.29 | 24.33 | 24.19 | 26.52 | 26.71 |
| 1150 | 1.26 | 1.25 | 6.80 | 6.74 | 23.97 | 24.02 | 24.96 | 24.90 | 27.41 | 27.30 |
| 1200 | 1.30 | 1.30 | 6.64 | 6.57 | 24.83 | 24.64 | 25.79 | 25.75 | 28.25 | 27.76 |
| 1250 | 1.35 | 1.34 | 6.49 | 6.42 | 25.71 | 25.40 | 26.49 | 26.39 | 29.46 | 28.76 |
| 1300 | 1.39 | 1.38 | 6.37 | 6.30 | 26.35 | 26.67 | 27.14 | 26.73 | 31.63 | 30.63 |
| 1350 | 1.42 | 1.42 | 6.26 | 6.19 | 27.64 | 28.11 | 28.61 | 27.98 | 34.68 | 32.69 |
| 1400 | 1.46 | 1.45 | 6.17 | 6.09 | 29.69 | 29.25 | 31.04 | 30.80 | 37.53 | 34.53 |
| 1450 | 1.48 | 1.48 | 6.09 | 6.01 | 31.04 | 29.39 | 32.24 | 32.47 | 40.67 | 35.12 |
| 1500 | 1.51 | 1.51 | 6.03 | 5.95 | 32.07 | 29.32 | 35.07 | 33.80 | 59.92 | 33.01 |
| 1550 | 1.52 | 1.53 | 5.99 | 5.91 | 33.32 | 29.50 | 39.36 | 36.34 | 42.19 | 31.45 |
| 1600 | 1.54 | 1.55 | 5.96 | 5.87 | 33.66 | 28.97 | 38.11 | 37.54 | 37.15 | 30.53 |
| 1650 | 1.55 | 1.56 | 5.95 | 5.86 | 33.59 | 28.19 | 34.40 | 37.10 | 33.74 | 29.57 |
| 1700 | 1.56 | 1.57 | 5.95 | 5.86 | 31.79 | 27.67 | 32.90 | 34.46 | 31.88 | 28.85 |
| 1750 | 1.57 | 1.57 | 5.96 | 5.87 | 29.02 | 26.20 | 30.18 | 30.00 | 29.70 | 27.01 |
| 1800 | 1.57 | 1.58 | 6.00 | 5.90 | 27.03 | 24.55 | 27.77 | 28.04 | 26.81 | 25.11 |
| 1850 | 1.56 | 1.58 | 6.04 | 5.94 | 25.72 | 23.92 | 26.49 | 26.73 | 25.38 | 24.39 |
| 1900 | 1.55 | 1.56 | 6.11 | 6.01 | 24.23 | 22.86 | 24.86 | 24.98 | 24.17 | 23.17 |
| 1950 | 1.54 | 1.56 | 6.18 | 6.08 | 23.37 | 21.64 | 23.69 | 24.25 | 23.08 | 22.16 |
| 2000 | 1.52 | 1.54 | 6.26 | 6.16 | 23.02 | 20.91 | 22.94 | 23.72 | 22.60 | 21.70 |
| 2050 | 1.51 | 1.52 | 6.38 | 6.27 | 21.77 | 19.66 | 21.63 | 22.20 | 21.58 | 20.58 |
| 2100 | 1.49 | 1.50 | 6.49 | 6.39 | 20.42 | 18.80 | 20.55 | 20.99 | 20.72 | 19.93 |
| 2150 | 1.46 | 1.48 | 6.62 | 6.52 | 19.72 | 18.03 | 20.18 | 20.74 | 20.12 | 19.45 |
| 2190 | 1.45 | 1.47 | 6.75 | 6.63 | 19.26 | 17.38 | 19.97 | 20.60 | 19.63 | 18.78 |
| 2200 | 1.44 | 1.47 | 6.79 | 6.68 | 18.99 | 17.17 | 19.89 | 20.53 | 19.57 | 18.74 |
| 2210 | 1.43 | 1.45 | 6.83 | 6.72 | 18.87 | 17.12 | 19.82 | 20.46 | 19.51 | 18.78 |
| 2225 | 1.42 | 1.44 | 6.86 | 6.75 | 18.75 | 16.98 | 19.53 | 20.07 | 19.34 | 18.67 |
| 2250 | 1.40 | 1.42 | 6.96 | 6.84 | 18.29 | 16.71 | 19.11 | 19.48 | 19.29 | 18.60 |
| 2300 | 1.38 | 1.39 | 7.14 | 7.02 | 17.16 | 15.93 | 18.32 | 18.48 | 18.73 | 18.12 |
| 2400 | 1.29 | 1.31 | 7.56 | 7.43 | 15.98 | 14.80 | 18.02 | 18.31 | 18.00 | 17.43 |
| 2500 | 1.21 | 1.25 | 8.03 | 7.93 | 14.10 | 13.16 | 17.73 | 17.94 | 17.11 | 16.44 |
| 2600 | 1.13 | 1.14 | 8.63 | 8.52 | 13.14 | 12.11 | 17.32 | 17.76 | 17.55 | 17.02 |
| 2700 | 1.02 | 1.04 | 9.32 | 9.18 | 12.29 | 10.75 | 17.12 | 17.75 | 17.58 | 16.77 |
| 2800 | 0.94 | 0.97 | 10.24 | 10.07 | 10.53 | 9.14 | 17.17 | 17.71 | 17.25 | 16.24 |
| 2900 | 0.83 | 0.85 | 11.26 | 11.10 | 9.15 | 7.94 | 16.91 | 17.41 | 17.71 | 16.98 |
| 3000 | 0.75 | 0.78 | 12.62 | 12.37 | 7.52 | 6.22 | 17.15 | 17.93 | 17.28 | 16.56 |
| 3100 | 0.67 | 0.70 | 14.38 | 14.12 | 5.06 | 3.95 | 17.42 | 18.38 | 17.29 | 16.64 |
| 3200 | 0.62 | 0.64 | 16.69 | 16.34 | 2.52 | 1.38 | 16.95 | 17.56 | 17.40 | 16.91 |
| 3300 | 0.58 | 0.60 | 19.85 | 19.37 | 0.94 | 2.00 | 16.78 | 17.39 | 17.27 | 16.96 |
| 3400 | 0.59 | 0.60 | 24.84 | 23.82 | 5.84 | 7.11 | 16.72 | 17.02 | 16.94 | 16.98 |
| 3500 | 0.63 | 0.60 | 29.90 | 28.96 | 11.51 | 12.48 | 15.93 | 15.63 | 16.74 | 16.86 |
| 3750 | 0.79 | 0.76 | 18.06 | 18.64 | 2.31 | 1.24 | 14.55 | 13.63 | 14.89 | 15.02 |
| 4000 | 1.06 | 1.02 | 13.36 | 13.58 | 2.36 | 3.37 | 12.77 | 11.79 | 13.24 | 13.32 |

# Bi-Directional Coupler BDCA1-6-22+

## *Typical Performance Data*

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = +100°C

| FREQ. (MHz) | INSERTION LOSS (dB) | | COUPLING (dB) | | DIRECTIVITY (dB) | | RETURN LOSS (dB) | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | IN-OUT | FWD-REV | IN-FWD | OUT-REV | IN-REV | OUT-FWD | IN | OUT | FWD | REV |
| 500 | 0.59 | 0.58 | 11.72 | 11.74 | 17.55 | 17.66 | 23.25 | 23.22 | 24.72 | 24.60 |
| 600 | 0.73 | 0.72 | 10.45 | 10.48 | 18.06 | 18.12 | 22.42 | 22.55 | 23.92 | 23.92 |
| 700 | 0.88 | 0.87 | 9.46 | 9.49 | 18.63 | 18.71 | 22.09 | 22.09 | 23.56 | 23.59 |
| 800 | 1.02 | 1.01 | 8.67 | 8.70 | 19.37 | 19.48 | 21.94 | 21.97 | 23.60 | 23.74 |
| 900 | 1.16 | 1.15 | 8.03 | 8.06 | 20.26 | 20.41 | 22.22 | 22.17 | 24.08 | 24.32 |
| 925 | 1.20 | 1.18 | 7.89 | 7.92 | 20.51 | 20.69 | 22.40 | 22.32 | 24.29 | 24.47 |
| 940 | 1.22 | 1.20 | 7.81 | 7.84 | 20.66 | 20.86 | 22.49 | 22.41 | 24.48 | 24.65 |
| 950 | 1.23 | 1.22 | 7.76 | 7.78 | 20.76 | 20.99 | 22.57 | 22.47 | 24.60 | 24.82 |
| 960 | 1.24 | 1.23 | 7.70 | 7.73 | 20.88 | 21.12 | 22.65 | 22.56 | 24.70 | 24.96 |
| 1000 | 1.29 | 1.28 | 7.51 | 7.54 | 21.38 | 21.66 | 22.97 | 22.89 | 25.15 | 25.29 |
| 1050 | 1.35 | 1.34 | 7.29 | 7.32 | 22.02 | 22.22 | 23.52 | 23.36 | 25.64 | 25.81 |
| 1100 | 1.41 | 1.40 | 7.09 | 7.12 | 22.74 | 22.95 | 24.12 | 24.00 | 26.43 | 26.59 |
| 1150 | 1.47 | 1.46 | 6.91 | 6.95 | 23.51 | 23.84 | 24.86 | 24.68 | 27.43 | 27.31 |
| 1200 | 1.52 | 1.51 | 6.76 | 6.79 | 24.41 | 24.68 | 25.95 | 25.68 | 28.43 | 27.94 |
| 1250 | 1.57 | 1.56 | 6.62 | 6.66 | 25.37 | 25.60 | 26.97 | 26.57 | 29.79 | 29.11 |
| 1300 | 1.61 | 1.61 | 6.51 | 6.55 | 26.47 | 26.82 | 28.16 | 27.56 | 31.76 | 30.39 |
| 1350 | 1.65 | 1.65 | 6.40 | 6.45 | 27.88 | 28.01 | 29.67 | 28.81 | 34.23 | 31.15 |
| 1400 | 1.69 | 1.68 | 6.32 | 6.37 | 29.24 | 29.26 | 31.85 | 30.08 | 37.71 | 31.78 |
| 1450 | 1.72 | 1.72 | 6.26 | 6.30 | 31.07 | 30.42 | 34.68 | 32.01 | 42.75 | 32.42 |
| 1500 | 1.75 | 1.75 | 6.20 | 6.25 | 33.04 | 31.49 | 37.34 | 34.16 | 48.44 | 32.55 |
| 1550 | 1.77 | 1.77 | 6.17 | 6.22 | 34.27 | 31.90 | 39.41 | 34.94 | 41.65 | 31.78 |
| 1600 | 1.79 | 1.80 | 6.15 | 6.20 | 34.57 | 31.30 | 37.88 | 34.49 | 35.98 | 30.48 |
| 1650 | 1.81 | 1.81 | 6.15 | 6.20 | 33.76 | 30.41 | 34.94 | 32.95 | 32.32 | 29.02 |
| 1700 | 1.82 | 1.82 | 6.16 | 6.21 | 31.46 | 29.14 | 31.91 | 30.67 | 29.96 | 27.57 |
| 1750 | 1.83 | 1.83 | 6.19 | 6.24 | 29.95 | 27.70 | 29.25 | 29.20 | 28.23 | 26.46 |
| 1800 | 1.83 | 1.84 | 6.23 | 6.28 | 28.63 | 26.20 | 27.58 | 28.01 | 26.87 | 25.43 |
| 1850 | 1.83 | 1.84 | 6.29 | 6.34 | 27.13 | 24.92 | 26.01 | 26.42 | 25.67 | 24.49 |
| 1900 | 1.83 | 1.83 | 6.36 | 6.42 | 25.68 | 23.80 | 24.76 | 25.27 | 24.58 | 23.66 |
| 1950 | 1.82 | 1.82 | 6.44 | 6.50 | 24.43 | 22.78 | 23.74 | 24.21 | 23.57 | 22.98 |
| 2000 | 1.81 | 1.81 | 6.55 | 6.61 | 23.07 | 21.80 | 22.80 | 23.18 | 22.60 | 22.15 |
| 2050 | 1.79 | 1.79 | 6.66 | 6.72 | 22.14 | 20.85 | 22.14 | 22.59 | 21.81 | 21.39 |
| 2100 | 1.77 | 1.78 | 6.78 | 6.86 | 21.16 | 19.93 | 21.39 | 21.85 | 21.15 | 20.79 |
| 2150 | 1.75 | 1.76 | 6.95 | 7.01 | 20.12 | 19.01 | 20.61 | 21.07 | 20.67 | 20.36 |
| 2190 | 1.73 | 1.73 | 7.09 | 7.15 | 19.43 | 18.46 | 20.16 | 20.56 | 20.30 | 19.92 |
| 2200 | 1.72 | 1.73 | 7.12 | 7.18 | 19.24 | 18.28 | 20.02 | 20.40 | 20.16 | 19.77 |
| 2210 | 1.72 | 1.73 | 7.15 | 7.22 | 19.01 | 18.05 | 19.92 | 20.33 | 20.06 | 19.70 |
| 2225 | 1.71 | 1.72 | 7.21 | 7.28 | 18.71 | 17.82 | 19.76 | 20.16 | 19.88 | 19.54 |
| 2250 | 1.69 | 1.70 | 7.29 | 7.36 | 18.45 | 17.47 | 19.52 | 19.84 | 19.59 | 19.15 |
| 2300 | 1.67 | 1.69 | 7.50 | 7.56 | 17.52 | 16.55 | 19.27 | 19.70 | 19.12 | 18.69 |
| 2400 | 1.59 | 1.60 | 7.95 | 8.02 | 16.24 | 15.28 | 18.69 | 19.10 | 18.38 | 17.89 |
| 2500 | 1.52 | 1.54 | 8.50 | 8.58 | 14.84 | 13.87 | 17.85 | 18.27 | 17.82 | 17.44 |
| 2600 | 1.44 | 1.46 | 9.18 | 9.26 | 12.93 | 12.35 | 17.52 | 17.80 | 17.37 | 16.87 |
| 2700 | 1.37 | 1.39 | 9.96 | 10.06 | 11.41 | 10.80 | 17.37 | 17.88 | 17.21 | 16.80 |
| 2800 | 1.28 | 1.30 | 10.96 | 11.03 | 9.82 | 9.14 | 17.31 | 18.00 | 17.42 | 16.86 |
| 2900 | 1.20 | 1.23 | 12.13 | 12.17 | 8.39 | 7.57 | 17.06 | 18.01 | 17.19 | 16.67 |
| 3000 | 1.17 | 1.18 | 13.59 | 13.62 | 6.40 | 5.62 | 16.93 | 17.80 | 17.20 | 16.71 |
| 3100 | 1.10 | 1.11 | 15.64 | 15.55 | 3.88 | 3.12 | 16.84 | 17.80 | 17.38 | 17.01 |
| 3200 | 1.06 | 1.08 | 18.18 | 18.00 | 1.01 | 0.31 | 16.73 | 17.58 | 17.04 | 16.89 |
| 3300 | 1.07 | 1.06 | 21.85 | 21.30 | 2.67 | 3.51 | 16.36 | 16.93 | 16.85 | 16.83 |
| 3400 | 1.11 | 1.12 | 27.59 | 26.67 | 8.68 | 9.66 | 16.21 | 16.11 | 16.28 | 16.65 |
| 3500 | 1.15 | 1.12 | 27.49 | 27.77 | 10.14 | 9.69 | 15.76 | 15.45 | 15.64 | 16.06 |
| 3750 | 1.35 | 1.31 | 17.19 | 17.98 | 1.37 | 0.25 | 14.19 | 13.22 | 13.97 | 14.57 |
| 4000 | 1.63 | 1.59 | 12.92 | 13.58 | 2.49 | 4.38 | 13.13 | 11.85 | 12.80 | 13.31 |