# 4 Way-0° Power Splitter/Combiner SBD-4-25

## *Typical Performance Data*

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

| FREQ. (MHz) | TOTAL LOSS[1] (dB) | | | | AMP. UNBAL. (dB) | PHASE UNBAL. (deg.) | ISOLATION (dB) | | | VSWR (:1) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S-1 | S-2 | S-3 | S-4 | | | 1-2 | 2-3 | 3-4 | S | 1 | 2 | 3 | 4 |
| 300 | 7.99 | 7.92 | 7.96 | 7.96 | 0.07 | 0.25 | 10.32 | 10.34 | 6.24 | 3.58 | 2.56 | 2.54 | 2.55 | 2.56 |
| 400 | 7.93 | 7.85 | 7.88 | 7.90 | 0.08 | 0.25 | 11.36 | 11.41 | 6.06 | 3.45 | 2.20 | 2.17 | 2.18 | 2.21 |
| 500 | 7.84 | 7.75 | 7.77 | 7.81 | 0.09 | 0.26 | 12.35 | 12.45 | 6.11 | 3.29 | 1.93 | 1.89 | 1.90 | 1.94 |
| 600 | 7.72 | 7.63 | 7.64 | 7.71 | 0.09 | 0.13 | 13.28 | 13.44 | 6.32 | 3.11 | 1.73 | 1.67 | 1.68 | 1.73 |
| 700 | 7.58 | 7.49 | 7.49 | 7.58 | 0.09 | 0.22 | 14.14 | 14.36 | 6.65 | 2.90 | 1.57 | 1.51 | 1.52 | 1.56 |
| 800 | 7.42 | 7.33 | 7.32 | 7.43 | 0.10 | 0.31 | 14.95 | 15.22 | 7.08 | 2.68 | 1.44 | 1.38 | 1.38 | 1.43 |
| 900 | 7.26 | 7.17 | 7.16 | 7.27 | 0.11 | 0.49 | 15.70 | 16.02 | 7.58 | 2.44 | 1.34 | 1.27 | 1.28 | 1.32 |
| 1000 | 7.09 | 6.99 | 6.99 | 7.09 | 0.10 | 0.66 | 16.43 | 16.75 | 8.15 | 2.20 | 1.25 | 1.20 | 1.19 | 1.24 |
| 1100 | 6.93 | 6.83 | 6.84 | 6.92 | 0.10 | 0.72 | 17.14 | 17.44 | 8.80 | 1.97 | 1.19 | 1.13 | 1.13 | 1.17 |
| 1200 | 6.79 | 6.69 | 6.71 | 6.77 | 0.11 | 0.85 | 17.86 | 18.09 | 9.53 | 1.75 | 1.14 | 1.09 | 1.08 | 1.12 |
| 1300 | 6.68 | 6.57 | 6.60 | 6.64 | 0.11 | 0.91 | 18.63 | 18.72 | 10.32 | 1.55 | 1.10 | 1.07 | 1.05 | 1.08 |
| 1400 | 6.60 | 6.49 | 6.54 | 6.56 | 0.11 | 1.07 | 19.48 | 19.38 | 11.15 | 1.38 | 1.07 | 1.06 | 1.03 | 1.05 |
| 1500 | 6.55 | 6.45 | 6.49 | 6.50 | 0.10 | 1.13 | 20.44 | 20.11 | 11.99 | 1.25 | 1.05 | 1.06 | 1.04 | 1.03 |
| 1550 | 6.54 | 6.43 | 6.48 | 6.49 | 0.10 | 1.15 | 20.98 | 20.53 | 12.42 | 1.20 | 1.05 | 1.07 | 1.05 | 1.02 |
| 1600 | 6.53 | 6.44 | 6.49 | 6.49 | 0.09 | 1.16 | 21.58 | 20.98 | 12.82 | 1.17 | 1.04 | 1.08 | 1.05 | 1.01 |
| 1650 | 6.54 | 6.45 | 6.50 | 6.50 | 0.08 | 1.21 | 22.22 | 21.49 | 13.22 | 1.17 | 1.03 | 1.09 | 1.07 | 1.01 |
| 1700 | 6.54 | 6.47 | 6.51 | 6.51 | 0.08 | 1.15 | 22.95 | 22.04 | 13.60 | 1.18 | 1.03 | 1.10 | 1.08 | 1.02 |
| 1750 | 6.56 | 6.49 | 6.53 | 6.52 | 0.07 | 1.26 | 23.75 | 22.68 | 13.97 | 1.21 | 1.03 | 1.11 | 1.09 | 1.03 |
| 1800 | 6.58 | 6.52 | 6.56 | 6.55 | 0.06 | 1.26 | 24.66 | 23.42 | 14.34 | 1.24 | 1.04 | 1.12 | 1.10 | 1.05 |
| 1850 | 6.60 | 6.55 | 6.58 | 6.58 | 0.05 | 1.38 | 25.67 | 24.26 | 14.71 | 1.28 | 1.04 | 1.14 | 1.11 | 1.06 |
| 1900 | 6.61 | 6.59 | 6.61 | 6.61 | 0.03 | 1.51 | 26.84 | 25.22 | 15.09 | 1.31 | 1.05 | 1.15 | 1.12 | 1.07 |
| 1950 | 6.63 | 6.61 | 6.64 | 6.64 | 0.03 | 1.62 | 28.20 | 26.35 | 15.51 | 1.34 | 1.06 | 1.15 | 1.13 | 1.09 |
| 2000 | 6.64 | 6.64 | 6.66 | 6.67 | 0.03 | 1.63 | 29.82 | 27.72 | 15.97 | 1.36 | 1.06 | 1.16 | 1.14 | 1.10 |
| 2050 | 6.66 | 6.67 | 6.68 | 6.70 | 0.04 | 1.69 | 31.80 | 29.39 | 16.49 | 1.37 | 1.07 | 1.17 | 1.15 | 1.11 |
| 2100 | 6.67 | 6.70 | 6.70 | 6.72 | 0.05 | 1.60 | 34.36 | 31.44 | 17.09 | 1.38 | 1.07 | 1.17 | 1.15 | 1.12 |
| 2150 | 6.68 | 6.71 | 6.71 | 6.73 | 0.05 | 1.63 | 38.01 | 34.27 | 17.78 | 1.38 | 1.08 | 1.17 | 1.15 | 1.12 |
| 2200 | 6.67 | 6.73 | 6.73 | 6.75 | 0.07 | 1.70 | 44.06 | 38.27 | 18.63 | 1.36 | 1.08 | 1.17 | 1.15 | 1.12 |
| 2250 | 6.67 | 6.74 | 6.72 | 6.74 | 0.07 | 1.76 | 53.55 | 44.05 | 19.65 | 1.34 | 1.07 | 1.16 | 1.14 | 1.12 |
| 2300 | 6.66 | 6.74 | 6.73 | 6.75 | 0.09 | 1.75 | 43.31 | 43.52 | 20.90 | 1.30 | 1.07 | 1.15 | 1.13 | 1.12 |
| 2350 | 6.65 | 6.74 | 6.73 | 6.76 | 0.11 | 1.76 | 37.86 | 37.95 | 22.45 | 1.26 | 1.06 | 1.14 | 1.13 | 1.11 |
| 2400 | 6.64 | 6.75 | 6.73 | 6.75 | 0.11 | 1.76 | 34.70 | 34.25 | 24.43 | 1.21 | 1.05 | 1.13 | 1.12 | 1.10 |
| 2450 | 6.64 | 6.75 | 6.73 | 6.75 | 0.12 | 1.86 | 32.37 | 31.68 | 26.94 | 1.15 | 1.03 | 1.12 | 1.11 | 1.09 |
| 2500 | 6.63 | 6.76 | 6.74 | 6.76 | 0.13 | 1.90 | 30.65 | 29.80 | 29.71 | 1.10 | 1.01 | 1.12 | 1.11 | 1.08 |
| 2550 | 6.64 | 6.78 | 6.76 | 6.78 | 0.14 | 1.97 | 29.33 | 28.36 | 30.63 | 1.08 | 1.01 | 1.13 | 1.13 | 1.08 |
| 2600 | 6.66 | 6.81 | 6.80 | 6.83 | 0.17 | 2.01 | 28.31 | 27.24 | 28.31 | 1.13 | 1.04 | 1.15 | 1.15 | 1.09 |
| 2650 | 6.70 | 6.86 | 6.85 | 6.88 | 0.18 | 2.00 | 27.50 | 26.44 | 25.33 | 1.21 | 1.07 | 1.19 | 1.19 | 1.11 |
| 2700 | 6.76 | 6.94 | 6.92 | 6.96 | 0.20 | 2.11 | 26.86 | 25.82 | 22.82 | 1.32 | 1.11 | 1.23 | 1.23 | 1.15 |
| 2750 | 6.85 | 7.04 | 7.01 | 7.06 | 0.22 | 2.23 | 26.36 | 25.39 | 20.82 | 1.46 | 1.15 | 1.29 | 1.28 | 1.20 |
| 2800 | 6.95 | 7.17 | 7.13 | 7.19 | 0.24 | 2.30 | 26.04 | 25.11 | 19.25 | 1.62 | 1.20 | 1.34 | 1.34 | 1.25 |
| 2850 | 7.10 | 7.33 | 7.28 | 7.36 | 0.26 | 2.42 | 25.79 | 25.01 | 17.99 | 1.79 | 1.25 | 1.41 | 1.41 | 1.31 |
| 2900 | 7.26 | 7.51 | 7.46 | 7.54 | 0.28 | 2.50 | 25.65 | 25.01 | 16.98 | 1.99 | 1.30 | 1.48 | 1.48 | 1.38 |
| 2950 | 7.45 | 7.72 | 7.66 | 7.75 | 0.30 | 2.64 | 25.60 | 25.14 | 16.18 | 2.21 | 1.36 | 1.55 | 1.55 | 1.45 |
| 3000 | 7.66 | 7.94 | 7.87 | 7.98 | 0.32 | 2.76 | 25.60 | 25.35 | 15.55 | 2.45 | 1.42 | 1.62 | 1.62 | 1.52 |
| 3100 | 8.11 | 8.43 | 8.34 | 8.45 | 0.34 | 2.83 | 25.80 | 26.02 | 14.72 | 2.97 | 1.54 | 1.76 | 1.77 | 1.66 |
| 3200 | 8.57 | 8.91 | 8.81 | 8.94 | 0.37 | 3.05 | 26.10 | 26.86 | 14.29 | 3.52 | 1.67 | 1.91 | 1.92 | 1.82 |
| 3300 | 8.99 | 9.32 | 9.23 | 9.35 | 0.36 | 3.09 | 26.48 | 27.98 | 14.27 | 3.99 | 1.81 | 2.04 | 2.06 | 1.96 |
| 3400 | 9.31 | 9.64 | 9.56 | 9.67 | 0.37 | 3.21 | 26.89 | 28.97 | 14.53 | 4.38 | 1.94 | 2.17 | 2.19 | 2.10 |
| 3500 | 9.50 | 9.81 | 9.75 | 9.86 | 0.36 | 3.28 | 27.19 | 29.84 | 15.13 | 4.56 | 2.07 | 2.28 | 2.32 | 2.24 |
| 3600 | 9.55 | 9.82 | 9.79 | 9.89 | 0.34 | 3.41 | 27.70 | 30.69 | 16.15 | 4.50 | 2.21 | 2.38 | 2.43 | 2.36 |
| 3700 | 9.44 | 9.66 | 9.66 | 9.76 | 0.31 | 3.53 | 28.23 | 31.24 | 17.73 | 4.22 | 2.33 | 2.46 | 2.53 | 2.46 |
| 3800 | 9.18 | 9.34 | 9.38 | 9.47 | 0.28 | 3.86 | 29.03 | 31.76 | 20.36 | 3.73 | 2.43 | 2.52 | 2.60 | 2.54 |
| 3900 | 8.80 | 8.91 | 8.95 | 9.06 | 0.26 | 3.94 | 30.51 | 32.51 | 25.55 | 3.09 | 2.51 | 2.55 | 2.64 | 2.58 |
| 4000 | 8.37 | 8.41 | 8.46 | 8.58 | 0.21 | 4.27 | 33.63 | 34.30 | 45.17 | 2.42 | 2.55 | 2.55 | 2.63 | 2.59 |
| 4100 | 8.00 | 7.98 | 8.01 | 8.17 | 0.19 | 4.43 | 40.99 | 39.37 | 23.69 | 1.81 | 2.56 | 2.52 | 2.60 | 2.56 |

[1] Total Loss = Insertion Loss+ 6dB Splitter Loss

# 4 Way-0° Power Splitter/Combiner SBD-4-25

## *Typical Performance Data*

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = -40°C

| FREQ. (MHz) | TOTAL LOSS[1] (dB) | | | | AMP. UNBAL. (dB) | PHASE UNBAL. (deg.) | ISOLATION (dB) | | | VSWR (:1) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S-1 | S-2 | S-3 | S-4 | | | 1-2 | 2-3 | 3-4 | S | 1 | 2 | 3 | 4 |
| 300 | 7.95 | 7.87 | 7.92 | 7.91 | 0.08 | 0.25 | 10.24 | 10.26 | 6.19 | 3.63 | 2.59 | 2.57 | 2.59 | 2.60 |
| 400 | 7.88 | 7.79 | 7.82 | 7.83 | 0.09 | 0.32 | 11.27 | 11.32 | 6.01 | 3.49 | 2.24 | 2.20 | 2.22 | 2.24 |
| 500 | 7.78 | 7.69 | 7.71 | 7.75 | 0.09 | 0.47 | 12.25 | 12.34 | 6.05 | 3.34 | 1.96 | 1.91 | 1.93 | 1.96 |
| 600 | 7.64 | 7.57 | 7.56 | 7.63 | 0.09 | 0.42 | 13.17 | 13.32 | 6.27 | 3.16 | 1.75 | 1.69 | 1.71 | 1.75 |
| 700 | 7.49 | 7.43 | 7.40 | 7.50 | 0.10 | 0.38 | 14.00 | 14.23 | 6.58 | 2.95 | 1.58 | 1.53 | 1.53 | 1.58 |
| 800 | 7.33 | 7.26 | 7.23 | 7.34 | 0.11 | 0.31 | 14.79 | 15.08 | 6.99 | 2.73 | 1.45 | 1.39 | 1.39 | 1.44 |
| 900 | 7.14 | 7.08 | 7.05 | 7.16 | 0.11 | 0.41 | 15.54 | 15.87 | 7.47 | 2.48 | 1.34 | 1.29 | 1.28 | 1.33 |
| 1000 | 6.97 | 6.90 | 6.87 | 6.97 | 0.10 | 0.54 | 16.26 | 16.61 | 8.03 | 2.23 | 1.26 | 1.20 | 1.20 | 1.24 |
| 1100 | 6.81 | 6.73 | 6.72 | 6.80 | 0.10 | 0.49 | 16.97 | 17.30 | 8.66 | 2.00 | 1.19 | 1.14 | 1.13 | 1.17 |
| 1200 | 6.67 | 6.57 | 6.58 | 6.64 | 0.10 | 0.66 | 17.68 | 17.94 | 9.36 | 1.78 | 1.14 | 1.09 | 1.08 | 1.12 |
| 1300 | 6.55 | 6.44 | 6.47 | 6.50 | 0.12 | 0.76 | 18.43 | 18.56 | 10.13 | 1.58 | 1.10 | 1.06 | 1.05 | 1.08 |
| 1400 | 6.46 | 6.35 | 6.40 | 6.40 | 0.11 | 1.02 | 19.25 | 19.20 | 10.95 | 1.40 | 1.07 | 1.06 | 1.04 | 1.05 |
| 1500 | 6.41 | 6.30 | 6.34 | 6.34 | 0.11 | 1.23 | 20.17 | 19.91 | 11.78 | 1.27 | 1.06 | 1.06 | 1.05 | 1.03 |
| 1550 | 6.39 | 6.29 | 6.33 | 6.33 | 0.10 | 1.40 | 20.70 | 20.31 | 12.19 | 1.23 | 1.05 | 1.07 | 1.05 | 1.02 |
| 1600 | 6.38 | 6.29 | 6.33 | 6.32 | 0.10 | 1.50 | 21.27 | 20.74 | 12.59 | 1.20 | 1.04 | 1.08 | 1.06 | 1.02 |
| 1650 | 6.38 | 6.29 | 6.34 | 6.32 | 0.09 | 1.63 | 21.90 | 21.22 | 12.97 | 1.18 | 1.04 | 1.09 | 1.07 | 1.01 |
| 1700 | 6.38 | 6.30 | 6.34 | 6.32 | 0.08 | 1.75 | 22.60 | 21.76 | 13.35 | 1.19 | 1.04 | 1.10 | 1.08 | 1.02 |
| 1750 | 6.38 | 6.32 | 6.35 | 6.33 | 0.06 | 1.89 | 23.38 | 22.38 | 13.70 | 1.21 | 1.03 | 1.12 | 1.09 | 1.03 |
| 1800 | 6.40 | 6.35 | 6.37 | 6.36 | 0.04 | 1.96 | 24.27 | 23.09 | 14.05 | 1.24 | 1.04 | 1.13 | 1.10 | 1.04 |
| 1850 | 6.41 | 6.38 | 6.39 | 6.38 | 0.03 | 1.97 | 25.26 | 23.90 | 14.39 | 1.28 | 1.05 | 1.14 | 1.11 | 1.05 |
| 1900 | 6.42 | 6.41 | 6.41 | 6.41 | 0.01 | 2.05 | 26.42 | 24.85 | 14.74 | 1.31 | 1.05 | 1.15 | 1.12 | 1.07 |
| 1950 | 6.43 | 6.44 | 6.43 | 6.44 | 0.01 | 2.12 | 27.76 | 25.96 | 15.12 | 1.33 | 1.05 | 1.16 | 1.12 | 1.08 |
| 2000 | 6.44 | 6.47 | 6.44 | 6.47 | 0.02 | 2.14 | 29.33 | 27.27 | 15.55 | 1.36 | 1.05 | 1.17 | 1.13 | 1.09 |
| 2050 | 6.45 | 6.49 | 6.46 | 6.49 | 0.04 | 2.17 | 31.30 | 28.86 | 16.02 | 1.37 | 1.06 | 1.18 | 1.13 | 1.11 |
| 2100 | 6.46 | 6.51 | 6.47 | 6.51 | 0.05 | 2.09 | 33.77 | 30.83 | 16.58 | 1.37 | 1.06 | 1.18 | 1.13 | 1.12 |
| 2150 | 6.46 | 6.52 | 6.48 | 6.52 | 0.06 | 2.16 | 37.32 | 33.49 | 17.22 | 1.37 | 1.06 | 1.18 | 1.14 | 1.12 |
| 2200 | 6.46 | 6.53 | 6.49 | 6.52 | 0.07 | 2.21 | 43.25 | 37.01 | 17.98 | 1.35 | 1.07 | 1.17 | 1.14 | 1.12 |
| 2250 | 6.45 | 6.54 | 6.49 | 6.52 | 0.09 | 2.24 | 64.86 | 41.71 | 18.91 | 1.34 | 1.07 | 1.17 | 1.13 | 1.12 |
| 2300 | 6.45 | 6.54 | 6.50 | 6.53 | 0.09 | 2.24 | 43.99 | 42.10 | 20.05 | 1.31 | 1.08 | 1.16 | 1.13 | 1.11 |
| 2350 | 6.44 | 6.55 | 6.51 | 6.53 | 0.11 | 2.33 | 37.92 | 37.59 | 21.46 | 1.28 | 1.08 | 1.14 | 1.12 | 1.11 |
| 2400 | 6.43 | 6.55 | 6.49 | 6.52 | 0.12 | 2.36 | 34.43 | 33.99 | 23.22 | 1.23 | 1.07 | 1.13 | 1.11 | 1.10 |
| 2450 | 6.41 | 6.54 | 6.50 | 6.52 | 0.13 | 2.42 | 32.08 | 31.37 | 25.45 | 1.17 | 1.06 | 1.12 | 1.10 | 1.09 |
| 2500 | 6.40 | 6.55 | 6.50 | 6.53 | 0.15 | 2.52 | 30.36 | 29.51 | 28.03 | 1.12 | 1.05 | 1.12 | 1.10 | 1.08 |
| 2550 | 6.41 | 6.56 | 6.51 | 6.54 | 0.15 | 2.64 | 28.99 | 28.06 | 29.78 | 1.08 | 1.03 | 1.13 | 1.10 | 1.07 |
| 2600 | 6.41 | 6.58 | 6.53 | 6.57 | 0.17 | 2.64 | 27.92 | 26.93 | 28.59 | 1.10 | 1.00 | 1.14 | 1.12 | 1.07 |
| 2650 | 6.44 | 6.63 | 6.57 | 6.62 | 0.19 | 2.68 | 27.11 | 26.07 | 25.82 | 1.18 | 1.03 | 1.18 | 1.16 | 1.09 |
| 2700 | 6.49 | 6.68 | 6.63 | 6.69 | 0.21 | 2.75 | 26.43 | 25.44 | 23.21 | 1.29 | 1.07 | 1.22 | 1.21 | 1.13 |
| 2750 | 6.56 | 6.78 | 6.71 | 6.79 | 0.22 | 2.83 | 25.90 | 24.97 | 21.07 | 1.42 | 1.11 | 1.27 | 1.27 | 1.18 |
| 2800 | 6.66 | 6.89 | 6.83 | 6.90 | 0.23 | 2.85 | 25.53 | 24.68 | 19.41 | 1.58 | 1.17 | 1.33 | 1.33 | 1.23 |
| 2850 | 6.80 | 7.02 | 6.97 | 7.05 | 0.26 | 2.90 | 25.29 | 24.55 | 18.06 | 1.75 | 1.23 | 1.39 | 1.40 | 1.30 |
| 2900 | 6.96 | 7.20 | 7.15 | 7.23 | 0.27 | 2.92 | 25.15 | 24.54 | 17.00 | 1.95 | 1.30 | 1.46 | 1.48 | 1.36 |
| 2950 | 7.15 | 7.39 | 7.34 | 7.44 | 0.30 | 3.08 | 25.08 | 24.62 | 16.12 | 2.19 | 1.37 | 1.53 | 1.56 | 1.43 |
| 3000 | 7.37 | 7.62 | 7.57 | 7.67 | 0.31 | 3.16 | 25.09 | 24.81 | 15.45 | 2.44 | 1.44 | 1.61 | 1.66 | 1.50 |
| 3100 | 7.84 | 8.11 | 8.06 | 8.16 | 0.32 | 3.26 | 25.29 | 25.49 | 14.54 | 3.02 | 1.61 | 1.76 | 1.82 | 1.66 |
| 3200 | 8.30 | 8.58 | 8.53 | 8.63 | 0.33 | 3.45 | 25.63 | 26.38 | 14.10 | 3.60 | 1.75 | 1.91 | 2.00 | 1.82 |
| 3300 | 8.71 | 9.00 | 8.96 | 9.04 | 0.33 | 3.60 | 25.97 | 27.33 | 13.99 | 4.13 | 1.89 | 2.05 | 2.15 | 1.97 |
| 3400 | 9.03 | 9.33 | 9.28 | 9.38 | 0.34 | 3.84 | 26.30 | 28.22 | 14.15 | 4.58 | 1.99 | 2.19 | 2.28 | 2.11 |
| 3500 | 9.20 | 9.53 | 9.45 | 9.58 | 0.38 | 3.91 | 26.66 | 29.14 | 14.67 | 4.77 | 2.08 | 2.32 | 2.39 | 2.25 |
| 3600 | 9.22 | 9.56 | 9.47 | 9.55 | 0.34 | 3.78 | 26.98 | 29.94 | 15.55 | 4.72 | 2.18 | 2.43 | 2.47 | 2.38 |
| 3700 | 9.11 | 9.43 | 9.33 | 9.44 | 0.34 | 3.78 | 27.47 | 30.46 | 16.95 | 4.43 | 2.28 | 2.54 | 2.54 | 2.48 |
| 3800 | 8.85 | 9.14 | 9.04 | 9.14 | 0.30 | 3.61 | 28.03 | 30.59 | 19.20 | 3.95 | 2.37 | 2.61 | 2.60 | 2.56 |
| 3900 | 8.49 | 8.74 | 8.65 | 8.74 | 0.25 | 3.19 | 29.30 | 31.31 | 23.42 | 3.31 | 2.45 | 2.66 | 2.62 | 2.60 |
| 4000 | 8.06 | 8.23 | 8.16 | 8.26 | 0.20 | 3.10 | 31.80 | 32.73 | 37.45 | 2.63 | 2.53 | 2.65 | 2.63 | 2.60 |
| 4100 | 7.69 | 7.76 | 7.71 | 7.84 | 0.15 | 2.93 | 37.89 | 35.86 | 25.86 | 1.99 | 2.60 | 2.61 | 2.65 | 2.58 |

[1] Total Loss = Insertion Loss+ 6dB Splitter Loss

# 4 Way-0° Power Splitter/Combiner SBD-4-25

## *Typical Performance Data*

TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +85°C

| FREQ. (MHz) | TOTAL LOSS[1] (dB) | | | | AMP. UNBAL. (dB) | PHASE UNBAL. (deg.) | ISOLATION (dB) | | | VSWR (:1) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S-1 | S-2 | S-3 | S-4 | | | 1-2 | 2-3 | 3-4 | S | 1 | 2 | 3 | 4 |
| 300 | 8.01 | 7.96 | 7.99 | 7.99 | 0.06 | 0.42 | 10.37 | 10.39 | 6.26 | 3.55 | 2.53 | 2.52 | 2.52 | 2.54 |
| 400 | 7.97 | 7.89 | 7.92 | 7.93 | 0.08 | 0.38 | 11.41 | 11.47 | 6.08 | 3.41 | 2.17 | 2.15 | 2.15 | 2.19 |
| 500 | 7.89 | 7.79 | 7.82 | 7.85 | 0.10 | 0.37 | 12.42 | 12.51 | 6.14 | 3.25 | 1.91 | 1.87 | 1.88 | 1.92 |
| 600 | 7.78 | 7.67 | 7.70 | 7.75 | 0.11 | 0.28 | 13.37 | 13.52 | 6.36 | 3.07 | 1.71 | 1.66 | 1.67 | 1.72 |
| 700 | 7.65 | 7.53 | 7.56 | 7.63 | 0.12 | 0.34 | 14.24 | 14.46 | 6.71 | 2.86 | 1.56 | 1.50 | 1.51 | 1.56 |
| 800 | 7.50 | 7.38 | 7.41 | 7.49 | 0.12 | 0.38 | 15.05 | 15.31 | 7.14 | 2.64 | 1.43 | 1.37 | 1.38 | 1.43 |
| 900 | 7.34 | 7.23 | 7.25 | 7.34 | 0.12 | 0.55 | 15.81 | 16.11 | 7.66 | 2.41 | 1.34 | 1.27 | 1.28 | 1.33 |
| 1000 | 7.18 | 7.07 | 7.09 | 7.18 | 0.11 | 0.72 | 16.55 | 16.83 | 8.24 | 2.18 | 1.26 | 1.19 | 1.20 | 1.24 |
| 1100 | 7.03 | 6.92 | 6.93 | 7.02 | 0.10 | 0.76 | 17.26 | 17.51 | 8.91 | 1.95 | 1.20 | 1.13 | 1.14 | 1.18 |
| 1200 | 6.88 | 6.79 | 6.80 | 6.88 | 0.09 | 0.92 | 17.99 | 18.16 | 9.65 | 1.73 | 1.14 | 1.09 | 1.09 | 1.12 |
| 1300 | 6.77 | 6.68 | 6.70 | 6.75 | 0.09 | 1.04 | 18.76 | 18.80 | 10.45 | 1.54 | 1.10 | 1.07 | 1.05 | 1.08 |
| 1400 | 6.70 | 6.60 | 6.63 | 6.67 | 0.09 | 1.15 | 19.62 | 19.46 | 11.30 | 1.37 | 1.07 | 1.06 | 1.03 | 1.05 |
| 1500 | 6.66 | 6.56 | 6.60 | 6.61 | 0.09 | 1.15 | 20.59 | 20.21 | 12.17 | 1.23 | 1.05 | 1.07 | 1.03 | 1.03 |
| 1550 | 6.65 | 6.56 | 6.61 | 6.60 | 0.08 | 1.17 | 21.15 | 20.64 | 12.61 | 1.18 | 1.04 | 1.07 | 1.04 | 1.02 |
| 1600 | 6.66 | 6.56 | 6.62 | 6.61 | 0.09 | 1.14 | 21.75 | 21.10 | 13.03 | 1.15 | 1.03 | 1.08 | 1.05 | 1.01 |
| 1650 | 6.66 | 6.57 | 6.64 | 6.62 | 0.09 | 1.16 | 22.41 | 21.61 | 13.44 | 1.15 | 1.02 | 1.09 | 1.06 | 1.01 |
| 1700 | 6.68 | 6.59 | 6.65 | 6.64 | 0.09 | 1.15 | 23.14 | 22.19 | 13.84 | 1.17 | 1.02 | 1.10 | 1.07 | 1.02 |
| 1750 | 6.70 | 6.62 | 6.68 | 6.66 | 0.09 | 1.27 | 23.95 | 22.83 | 14.23 | 1.20 | 1.02 | 1.11 | 1.09 | 1.04 |
| 1800 | 6.73 | 6.66 | 6.71 | 6.70 | 0.07 | 1.36 | 24.88 | 23.58 | 14.62 | 1.24 | 1.03 | 1.12 | 1.10 | 1.05 |
| 1850 | 6.75 | 6.69 | 6.74 | 6.73 | 0.07 | 1.41 | 25.89 | 24.43 | 15.01 | 1.28 | 1.04 | 1.13 | 1.12 | 1.07 |
| 1900 | 6.77 | 6.72 | 6.78 | 6.76 | 0.06 | 1.40 | 27.09 | 25.42 | 15.41 | 1.31 | 1.05 | 1.14 | 1.13 | 1.08 |
| 1950 | 6.80 | 6.75 | 6.81 | 6.80 | 0.06 | 1.54 | 28.47 | 26.60 | 15.86 | 1.34 | 1.07 | 1.15 | 1.14 | 1.10 |
| 2000 | 6.82 | 6.79 | 6.84 | 6.83 | 0.05 | 1.56 | 30.08 | 28.00 | 16.35 | 1.36 | 1.07 | 1.16 | 1.15 | 1.11 |
| 2050 | 6.83 | 6.82 | 6.86 | 6.86 | 0.04 | 1.62 | 32.10 | 29.71 | 16.91 | 1.38 | 1.08 | 1.16 | 1.16 | 1.12 |
| 2100 | 6.84 | 6.84 | 6.89 | 6.88 | 0.05 | 1.65 | 34.63 | 31.93 | 17.55 | 1.38 | 1.09 | 1.16 | 1.16 | 1.12 |
| 2150 | 6.85 | 6.87 | 6.90 | 6.90 | 0.05 | 1.74 | 38.09 | 34.91 | 18.31 | 1.37 | 1.09 | 1.16 | 1.16 | 1.13 |
| 2200 | 6.85 | 6.89 | 6.91 | 6.91 | 0.06 | 1.79 | 43.04 | 39.41 | 19.21 | 1.36 | 1.08 | 1.16 | 1.16 | 1.13 |
| 2250 | 6.84 | 6.90 | 6.91 | 6.91 | 0.07 | 1.82 | 46.66 | 48.12 | 20.31 | 1.33 | 1.08 | 1.15 | 1.15 | 1.13 |
| 2300 | 6.84 | 6.90 | 6.92 | 6.92 | 0.08 | 1.85 | 41.71 | 45.40 | 21.67 | 1.29 | 1.07 | 1.14 | 1.14 | 1.12 |
| 2350 | 6.83 | 6.90 | 6.92 | 6.93 | 0.10 | 1.85 | 37.36 | 38.27 | 23.40 | 1.24 | 1.05 | 1.13 | 1.13 | 1.11 |
| 2400 | 6.83 | 6.91 | 6.93 | 6.93 | 0.10 | 1.85 | 34.42 | 34.34 | 25.62 | 1.19 | 1.04 | 1.12 | 1.13 | 1.10 |
| 2450 | 6.82 | 6.92 | 6.94 | 6.94 | 0.11 | 1.94 | 32.33 | 31.76 | 28.52 | 1.14 | 1.02 | 1.12 | 1.12 | 1.09 |
| 2500 | 6.83 | 6.93 | 6.95 | 6.96 | 0.13 | 1.97 | 30.70 | 29.88 | 31.46 | 1.09 | 1.01 | 1.12 | 1.13 | 1.08 |
| 2550 | 6.85 | 6.96 | 6.98 | 6.98 | 0.13 | 2.05 | 29.45 | 28.48 | 31.29 | 1.08 | 1.03 | 1.13 | 1.14 | 1.08 |
| 2600 | 6.87 | 7.00 | 7.02 | 7.03 | 0.16 | 2.10 | 28.47 | 27.40 | 28.05 | 1.14 | 1.06 | 1.16 | 1.17 | 1.10 |
| 2650 | 6.92 | 7.06 | 7.08 | 7.10 | 0.17 | 2.11 | 27.71 | 26.59 | 24.95 | 1.23 | 1.10 | 1.19 | 1.21 | 1.13 |
| 2700 | 6.99 | 7.14 | 7.16 | 7.18 | 0.20 | 2.31 | 27.11 | 26.03 | 22.50 | 1.34 | 1.13 | 1.24 | 1.25 | 1.17 |
| 2750 | 7.08 | 7.26 | 7.25 | 7.29 | 0.21 | 2.44 | 26.65 | 25.62 | 20.58 | 1.47 | 1.17 | 1.29 | 1.30 | 1.22 |
| 2800 | 7.20 | 7.39 | 7.38 | 7.43 | 0.23 | 2.59 | 26.31 | 25.39 | 19.10 | 1.62 | 1.21 | 1.35 | 1.36 | 1.27 |
| 2850 | 7.34 | 7.55 | 7.53 | 7.60 | 0.25 | 2.69 | 26.13 | 25.30 | 17.90 | 1.79 | 1.26 | 1.42 | 1.41 | 1.33 |
| 2900 | 7.51 | 7.75 | 7.71 | 7.79 | 0.28 | 2.80 | 26.00 | 25.34 | 16.95 | 1.99 | 1.30 | 1.48 | 1.47 | 1.39 |
| 2950 | 7.70 | 7.97 | 7.91 | 8.01 | 0.30 | 2.85 | 25.97 | 25.48 | 16.18 | 2.20 | 1.35 | 1.56 | 1.54 | 1.46 |
| 3000 | 7.92 | 8.20 | 8.13 | 8.23 | 0.31 | 3.00 | 26.00 | 25.70 | 15.59 | 2.43 | 1.41 | 1.63 | 1.61 | 1.53 |
| 3100 | 8.37 | 8.70 | 8.61 | 8.73 | 0.36 | 3.08 | 26.23 | 26.42 | 14.81 | 2.93 | 1.51 | 1.77 | 1.74 | 1.67 |
| 3200 | 8.85 | 9.20 | 9.09 | 9.21 | 0.36 | 3.20 | 26.61 | 27.43 | 14.49 | 3.46 | 1.64 | 1.91 | 1.88 | 1.81 |
| 3300 | 9.28 | 9.63 | 9.53 | 9.64 | 0.36 | 3.14 | 27.03 | 28.53 | 14.53 | 3.93 | 1.78 | 2.04 | 2.02 | 1.96 |
| 3400 | 9.61 | 9.93 | 9.85 | 9.96 | 0.35 | 3.20 | 27.50 | 29.60 | 14.87 | 4.29 | 1.93 | 2.16 | 2.17 | 2.10 |
| 3500 | 9.81 | 10.08 | 10.05 | 10.15 | 0.34 | 3.31 | 27.98 | 30.63 | 15.61 | 4.44 | 2.08 | 2.27 | 2.31 | 2.24 |
| 3600 | 9.84 | 10.08 | 10.09 | 10.16 | 0.31 | 3.68 | 28.50 | 31.68 | 16.83 | 4.36 | 2.23 | 2.36 | 2.43 | 2.36 |
| 3700 | 9.71 | 9.87 | 9.94 | 10.02 | 0.31 | 3.77 | 29.23 | 32.27 | 18.61 | 4.02 | 2.35 | 2.44 | 2.53 | 2.46 |
| 3800 | 9.44 | 9.53 | 9.62 | 9.71 | 0.27 | 3.96 | 30.15 | 32.79 | 21.67 | 3.51 | 2.46 | 2.49 | 2.61 | 2.54 |
| 3900 | 9.05 | 9.07 | 9.19 | 9.28 | 0.23 | 4.09 | 32.01 | 33.88 | 28.12 | 2.86 | 2.52 | 2.52 | 2.63 | 2.59 |
| 4000 | 8.63 | 8.60 | 8.71 | 8.81 | 0.21 | 4.44 | 35.83 | 36.48 | 36.10 | 2.22 | 2.54 | 2.51 | 2.61 | 2.58 |
| 4100 | 8.30 | 8.22 | 8.30 | 8.43 | 0.22 | 4.70 | 41.52 | 43.98 | 22.09 | 1.67 | 2.51 | 2.48 | 2.55 | 2.55 |

[1] Total Loss = Insertion Loss+ 6dB Splitter Loss