

2 Way-0° Power Splitter/Combiner

BP2P+

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 | 1 | 2 |
| 1000.0 | 3.51 | 3.50 | 0.01 | 0.85 | 7.25 | 1.59 | 1.70 | 1.71 |
| 1050.0 | 3.49 | 3.48 | 0.01 | 0.88 | 7.68 | 1.56 | 1.68 | 1.68 |
| 1100.0 | 3.48 | 3.47 | 0.01 | 0.93 | 8.18 | 1.53 | 1.64 | 1.65 |
| 1150.0 | 3.47 | 3.45 | 0.02 | 1.01 | 8.72 | 1.50 | 1.61 | 1.62 |
| 1200.0 | 3.46 | 3.44 | 0.02 | 1.02 | 9.31 | 1.47 | 1.57 | 1.58 |
| 1250.0 | 3.45 | 3.43 | 0.02 | 1.07 | 9.96 | 1.43 | 1.54 | 1.54 |
| 1300.0 | 3.43 | 3.41 | 0.02 | 1.10 | 10.70 | 1.40 | 1.50 | 1.50 |
| 1350.0 | 3.42 | 3.39 | 0.03 | 1.15 | 11.51 | 1.36 | 1.45 | 1.46 |
| 1400.0 | 3.41 | 3.38 | 0.03 | 1.19 | 12.43 | 1.32 | 1.41 | 1.41 |
| 1450.0 | 3.40 | 3.37 | 0.03 | 1.29 | 13.47 | 1.28 | 1.37 | 1.37 |
| 1500.0 | 3.39 | 3.36 | 0.03 | 1.35 | 14.65 | 1.24 | 1.32 | 1.32 |
| 1550.0 | 3.39 | 3.35 | 0.04 | 1.36 | 16.05 | 1.20 | 1.28 | 1.28 |
| 1600.0 | 3.38 | 3.34 | 0.04 | 1.44 | 17.69 | 1.16 | 1.23 | 1.23 |
| 1650.0 | 3.38 | 3.33 | 0.05 | 1.46 | 19.68 | 1.12 | 1.18 | 1.19 |
| 1700.0 | 3.38 | 3.33 | 0.05 | 1.57 | 22.28 | 1.08 | 1.14 | 1.14 |
| 1750.0 | 3.38 | 3.33 | 0.05 | 1.64 | 25.87 | 1.04 | 1.10 | 1.10 |
| 1800.0 | 3.39 | 3.34 | 0.05 | 1.71 | 31.85 | 1.03 | 1.06 | 1.06 |
| 1850.0 | 3.40 | 3.35 | 0.05 | 1.77 | 40.94 | 1.07 | 1.03 | 1.04 |
| 1900.0 | 3.42 | 3.36 | 0.06 | 1.81 | 30.99 | 1.12 | 1.06 | 1.06 |
| 1950.0 | 3.45 | 3.38 | 0.07 | 1.92 | 25.69 | 1.17 | 1.10 | 1.10 |
| 2000.0 | 3.48 | 3.42 | 0.06 | 1.96 | 22.39 | 1.24 | 1.15 | 1.14 |
| 2050.0 | 3.52 | 3.46 | 0.06 | 2.03 | 20.05 | 1.30 | 1.20 | 1.19 |
| 2100.0 | 3.57 | 3.50 | 0.07 | 2.18 | 18.25 | 1.38 | 1.25 | 1.25 |
| 2150.0 | 3.63 | 3.55 | 0.08 | 2.22 | 16.78 | 1.46 | 1.31 | 1.31 |
| 2200.0 | 3.70 | 3.62 | 0.08 | 2.31 | 15.58 | 1.55 | 1.37 | 1.36 |
| 2250.0 | 3.78 | 3.69 | 0.09 | 2.43 | 14.51 | 1.65 | 1.44 | 1.43 |
| 2300.0 | 3.86 | 3.78 | 0.08 | 2.55 | 13.58 | 1.76 | 1.51 | 1.49 |
| 2350.0 | 3.97 | 3.88 | 0.09 | 2.66 | 12.78 | 1.87 | 1.58 | 1.57 |
| 2360.0 | 3.99 | 3.90 | 0.09 | 2.70 | 12.62 | 1.90 | 1.59 | 1.58 |
| 2370.0 | 4.02 | 3.93 | 0.09 | 2.72 | 12.47 | 1.92 | 1.61 | 1.59 |
| 2380.0 | 4.04 | 3.95 | 0.09 | 2.75 | 12.35 | 1.95 | 1.62 | 1.61 |
| 2390.0 | 4.06 | 3.97 | 0.09 | 2.78 | 12.22 | 1.98 | 1.64 | 1.63 |
| 2400.0 | 4.09 | 3.99 | 0.10 | 2.80 | 12.08 | 2.01 | 1.65 | 1.64 |
| 2450.0 | 4.21 | 4.11 | 0.10 | 2.94 | 11.43 | 2.16 | 1.73 | 1.72 |
| 2500.0 | 4.36 | 4.25 | 0.11 | 3.11 | 10.85 | 2.32 | 1.82 | 1.80 |
| 2550.0 | 4.51 | 4.40 | 0.11 | 3.27 | 10.33 | 2.50 | 1.91 | 1.89 |
| 2560.0 | 4.54 | 4.44 | 0.10 | 3.30 | 10.23 | 2.53 | 1.93 | 1.90 |
| 2570.0 | 4.59 | 4.47 | 0.12 | 3.30 | 10.12 | 2.57 | 1.95 | 1.91 |
| 2580.0 | 4.62 | 4.50 | 0.12 | 3.31 | 10.02 | 2.61 | 1.97 | 1.93 |
| 2590.0 | 4.66 | 4.54 | 0.12 | 3.33 | 9.93 | 2.65 | 1.98 | 1.95 |
| 2600.0 | 4.69 | 4.57 | 0.12 | 3.41 | 9.84 | 2.69 | 2.00 | 1.97 |
| 2650.0 | 4.88 | 4.75 | 0.13 | 3.55 | 9.40 | 2.91 | 2.10 | 2.06 |
| 2660.0 | 4.91 | 4.79 | 0.12 | 3.60 | 9.32 | 2.95 | 2.12 | 2.08 |
| 2670.0 | 4.96 | 4.83 | 0.13 | 3.57 | 9.23 | 2.99 | 2.14 | 2.10 |
| 2680.0 | 5.00 | 4.87 | 0.13 | 3.62 | 9.15 | 3.04 | 2.17 | 2.12 |
| 2690.0 | 5.04 | 4.91 | 0.13 | 3.68 | 9.07 | 3.09 | 2.18 | 2.14 |
| 2700.0 | 5.09 | 4.95 | 0.14 | 3.70 | 8.99 | 3.14 | 2.20 | 2.16 |
| 2750.0 | 5.31 | 5.16 | 0.15 | 3.90 | 8.62 | 3.40 | 2.31 | 2.26 |
| 2800.0 | 5.55 | 5.38 | 0.17 | 4.10 | 8.29 | 3.67 | 2.42 | 2.36 |
| 2850.0 | 5.79 | 5.61 | 0.18 | 4.26 | 7.98 | 3.98 | 2.54 | 2.47 |
| 2900.0 | 6.06 | 5.87 | 0.19 | 4.43 | 7.69 | 4.31 | 2.66 | 2.58 |
| 2950.0 | 6.34 | 6.13 | 0.21 | 4.67 | 7.44 | 4.67 | 2.78 | 2.69 |
| 3000.0 | 6.63 | 6.41 | 0.22 | 4.86 | 7.20 | 5.04 | 2.91 | 2.81 |

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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2 Way-0° Power Splitter/Combiner

BP2P+

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 | 1 | 2 |
| 1000.0 | 3.39 | 3.40 | 0.01 | 0.79 | 7.07 | 1.62 | 1.73 | 1.74 |
| 1050.0 | 3.37 | 3.37 | 0.00 | 0.83 | 7.52 | 1.58 | 1.70 | 1.71 |
| 1100.0 | 3.36 | 3.36 | 0.00 | 0.87 | 7.97 | 1.56 | 1.66 | 1.68 |
| 1150.0 | 3.35 | 3.35 | 0.00 | 0.98 | 8.48 | 1.53 | 1.63 | 1.64 |
| 1200.0 | 3.34 | 3.32 | 0.02 | 0.97 | 9.07 | 1.48 | 1.60 | 1.60 |
| 1250.0 | 3.31 | 3.30 | 0.01 | 0.98 | 9.69 | 1.45 | 1.55 | 1.56 |
| 1300.0 | 3.29 | 3.28 | 0.01 | 1.03 | 10.42 | 1.41 | 1.51 | 1.52 |
| 1350.0 | 3.27 | 3.26 | 0.01 | 1.08 | 11.21 | 1.37 | 1.47 | 1.47 |
| 1400.0 | 3.26 | 3.24 | 0.02 | 1.13 | 12.09 | 1.33 | 1.42 | 1.42 |
| 1450.0 | 3.25 | 3.22 | 0.03 | 1.24 | 13.09 | 1.29 | 1.37 | 1.37 |
| 1500.0 | 3.24 | 3.21 | 0.03 | 1.27 | 14.19 | 1.26 | 1.32 | 1.32 |
| 1550.0 | 3.23 | 3.20 | 0.03 | 1.28 | 15.52 | 1.21 | 1.27 | 1.27 |
| 1600.0 | 3.22 | 3.19 | 0.03 | 1.40 | 17.11 | 1.17 | 1.22 | 1.22 |
| 1650.0 | 3.22 | 3.18 | 0.04 | 1.40 | 19.00 | 1.13 | 1.18 | 1.17 |
| 1700.0 | 3.21 | 3.17 | 0.04 | 1.49 | 21.34 | 1.10 | 1.13 | 1.12 |
| 1750.0 | 3.21 | 3.17 | 0.04 | 1.54 | 24.64 | 1.07 | 1.08 | 1.08 |
| 1800.0 | 3.22 | 3.18 | 0.04 | 1.61 | 30.07 | 1.06 | 1.05 | 1.04 |
| 1850.0 | 3.23 | 3.18 | 0.05 | 1.66 | 43.87 | 1.08 | 1.03 | 1.04 |
| 1900.0 | 3.24 | 3.19 | 0.05 | 1.66 | 32.99 | 1.12 | 1.06 | 1.07 |
| 1950.0 | 3.26 | 3.20 | 0.06 | 1.77 | 26.36 | 1.17 | 1.10 | 1.11 |
| 2000.0 | 3.28 | 3.23 | 0.05 | 1.81 | 22.82 | 1.22 | 1.15 | 1.16 |
| 2050.0 | 3.32 | 3.27 | 0.05 | 1.91 | 20.30 | 1.29 | 1.21 | 1.21 |
| 2100.0 | 3.36 | 3.31 | 0.05 | 2.03 | 18.34 | 1.37 | 1.26 | 1.26 |
| 2150.0 | 3.41 | 3.36 | 0.05 | 2.14 | 16.81 | 1.44 | 1.31 | 1.31 |
| 2200.0 | 3.47 | 3.41 | 0.06 | 2.27 | 15.57 | 1.52 | 1.37 | 1.36 |
| 2250.0 | 3.55 | 3.48 | 0.07 | 2.39 | 14.45 | 1.63 | 1.44 | 1.41 |
| 2300.0 | 3.63 | 3.56 | 0.07 | 2.54 | 13.49 | 1.73 | 1.50 | 1.47 |
| 2350.0 | 3.72 | 3.64 | 0.08 | 2.70 | 12.69 | 1.84 | 1.57 | 1.54 |
| 2360.0 | 3.75 | 3.66 | 0.09 | 2.67 | 12.53 | 1.87 | 1.58 | 1.54 |
| 2370.0 | 3.77 | 3.69 | 0.08 | 2.71 | 12.37 | 1.90 | 1.60 | 1.56 |
| 2380.0 | 3.79 | 3.71 | 0.08 | 2.74 | 12.23 | 1.92 | 1.62 | 1.57 |
| 2390.0 | 3.81 | 3.72 | 0.09 | 2.79 | 12.12 | 1.96 | 1.63 | 1.59 |
| 2400.0 | 3.83 | 3.75 | 0.08 | 2.81 | 11.94 | 1.99 | 1.64 | 1.59 |
| 2450.0 | 3.96 | 3.86 | 0.10 | 2.98 | 11.23 | 2.14 | 1.72 | 1.67 |
| 2500.0 | 4.09 | 3.98 | 0.11 | 3.16 | 10.65 | 2.29 | 1.80 | 1.75 |
| 2550.0 | 4.23 | 4.12 | 0.11 | 3.31 | 10.12 | 2.46 | 1.88 | 1.83 |
| 2560.0 | 4.27 | 4.15 | 0.12 | 3.34 | 10.00 | 2.50 | 1.90 | 1.84 |
| 2570.0 | 4.30 | 4.18 | 0.12 | 3.30 | 9.89 | 2.54 | 1.92 | 1.85 |
| 2580.0 | 4.34 | 4.21 | 0.13 | 3.33 | 9.79 | 2.58 | 1.93 | 1.86 |
| 2590.0 | 4.37 | 4.25 | 0.12 | 3.39 | 9.70 | 2.62 | 1.95 | 1.88 |
| 2600.0 | 4.40 | 4.28 | 0.12 | 3.43 | 9.60 | 2.67 | 1.96 | 1.90 |
| 2650.0 | 4.60 | 4.45 | 0.15 | 3.67 | 9.14 | 2.90 | 2.07 | 1.99 |
| 2660.0 | 4.64 | 4.49 | 0.15 | 3.69 | 9.05 | 2.95 | 2.09 | 2.01 |
| 2670.0 | 4.69 | 4.53 | 0.16 | 3.69 | 8.96 | 2.99 | 2.12 | 2.02 |
| 2680.0 | 4.73 | 4.57 | 0.16 | 3.68 | 8.88 | 3.05 | 2.14 | 2.04 |
| 2690.0 | 4.77 | 4.61 | 0.16 | 3.71 | 8.80 | 3.10 | 2.15 | 2.06 |
| 2700.0 | 4.81 | 4.64 | 0.17 | 3.76 | 8.73 | 3.15 | 2.17 | 2.09 |
| 2750.0 | 5.03 | 4.85 | 0.18 | 3.87 | 8.35 | 3.43 | 2.27 | 2.19 |
| 2800.0 | 5.28 | 5.07 | 0.21 | 4.07 | 8.00 | 3.73 | 2.38 | 2.29 |
| 2850.0 | 5.51 | 5.30 | 0.21 | 4.23 | 7.71 | 4.07 | 2.51 | 2.40 |
| 2900.0 | 5.79 | 5.54 | 0.25 | 4.31 | 7.46 | 4.44 | 2.66 | 2.54 |
| 2950.0 | 6.05 | 5.80 | 0.25 | 4.42 | 7.24 | 4.83 | 2.78 | 2.66 |
| 3000.0 | 6.35 | 6.07 | 0.28 | 4.68 | 7.03 | 5.28 | 2.92 | 2.79 |

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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2 Way-0° Power Splitter/Combiner

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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 | 1 | 2 |
| 1000.0 | 3.56 | 3.55 | 0.01 | 1.01 | 7.40 | 1.58 | 1.69 | 1.69 |
| 1050.0 | 3.55 | 3.54 | 0.01 | 1.05 | 7.85 | 1.55 | 1.66 | 1.66 |
| 1100.0 | 3.54 | 3.53 | 0.01 | 1.08 | 8.37 | 1.52 | 1.64 | 1.64 |
| 1150.0 | 3.54 | 3.52 | 0.02 | 1.19 | 8.92 | 1.49 | 1.61 | 1.61 |
| 1200.0 | 3.54 | 3.51 | 0.03 | 1.19 | 9.54 | 1.46 | 1.57 | 1.57 |
| 1250.0 | 3.52 | 3.50 | 0.02 | 1.24 | 10.22 | 1.42 | 1.54 | 1.54 |
| 1300.0 | 3.51 | 3.48 | 0.03 | 1.25 | 10.98 | 1.39 | 1.51 | 1.50 |
| 1350.0 | 3.50 | 3.47 | 0.03 | 1.27 | 11.82 | 1.35 | 1.46 | 1.46 |
| 1400.0 | 3.49 | 3.46 | 0.03 | 1.32 | 12.78 | 1.31 | 1.42 | 1.42 |
| 1450.0 | 3.48 | 3.45 | 0.03 | 1.42 | 13.86 | 1.28 | 1.38 | 1.38 |
| 1500.0 | 3.48 | 3.44 | 0.04 | 1.47 | 15.10 | 1.23 | 1.34 | 1.34 |
| 1550.0 | 3.47 | 3.44 | 0.03 | 1.48 | 16.57 | 1.19 | 1.29 | 1.30 |
| 1600.0 | 3.46 | 3.43 | 0.03 | 1.60 | 18.29 | 1.15 | 1.25 | 1.26 |
| 1650.0 | 3.46 | 3.43 | 0.03 | 1.65 | 20.43 | 1.11 | 1.21 | 1.22 |
| 1700.0 | 3.47 | 3.43 | 0.04 | 1.77 | 23.24 | 1.07 | 1.16 | 1.18 |
| 1750.0 | 3.48 | 3.43 | 0.05 | 1.84 | 27.20 | 1.03 | 1.12 | 1.14 |
| 1800.0 | 3.49 | 3.44 | 0.05 | 1.95 | 33.46 | 1.03 | 1.08 | 1.09 |
| 1850.0 | 3.51 | 3.46 | 0.05 | 2.04 | 35.74 | 1.07 | 1.05 | 1.06 |
| 1900.0 | 3.53 | 3.47 | 0.06 | 2.08 | 28.99 | 1.12 | 1.05 | 1.05 |
| 1950.0 | 3.56 | 3.49 | 0.07 | 2.20 | 24.76 | 1.18 | 1.09 | 1.08 |
| 2000.0 | 3.59 | 3.53 | 0.06 | 2.24 | 21.86 | 1.24 | 1.13 | 1.12 |
| 2050.0 | 3.64 | 3.57 | 0.07 | 2.33 | 19.74 | 1.31 | 1.19 | 1.17 |
| 2100.0 | 3.69 | 3.61 | 0.08 | 2.47 | 18.08 | 1.38 | 1.24 | 1.22 |
| 2150.0 | 3.76 | 3.68 | 0.08 | 2.53 | 16.73 | 1.47 | 1.30 | 1.29 |
| 2200.0 | 3.83 | 3.75 | 0.08 | 2.59 | 15.58 | 1.56 | 1.37 | 1.35 |
| 2250.0 | 3.92 | 3.83 | 0.09 | 2.66 | 14.57 | 1.66 | 1.44 | 1.42 |
| 2300.0 | 4.02 | 3.93 | 0.09 | 2.81 | 13.69 | 1.77 | 1.51 | 1.50 |
| 2350.0 | 4.13 | 4.03 | 0.10 | 2.91 | 12.93 | 1.90 | 1.59 | 1.58 |
| 2360.0 | 4.16 | 4.06 | 0.10 | 2.91 | 12.77 | 1.92 | 1.61 | 1.59 |
| 2370.0 | 4.19 | 4.09 | 0.10 | 2.90 | 12.61 | 1.95 | 1.62 | 1.61 |
| 2380.0 | 4.21 | 4.12 | 0.09 | 2.91 | 12.48 | 1.98 | 1.64 | 1.63 |
| 2390.0 | 4.23 | 4.14 | 0.09 | 2.98 | 12.37 | 2.01 | 1.65 | 1.65 |
| 2400.0 | 4.26 | 4.16 | 0.10 | 2.99 | 12.23 | 2.04 | 1.67 | 1.67 |
| 2450.0 | 4.40 | 4.30 | 0.10 | 3.16 | 11.61 | 2.19 | 1.76 | 1.76 |
| 2500.0 | 4.55 | 4.45 | 0.10 | 3.31 | 11.04 | 2.36 | 1.85 | 1.86 |
| 2550.0 | 4.73 | 4.62 | 0.11 | 3.44 | 10.52 | 2.55 | 1.95 | 1.96 |
| 2560.0 | 4.76 | 4.65 | 0.11 | 3.48 | 10.43 | 2.58 | 1.97 | 1.98 |
| 2570.0 | 4.81 | 4.69 | 0.12 | 3.47 | 10.33 | 2.62 | 2.00 | 1.99 |
| 2580.0 | 4.85 | 4.73 | 0.12 | 3.48 | 10.23 | 2.66 | 2.02 | 2.01 |
| 2590.0 | 4.89 | 4.76 | 0.13 | 3.47 | 10.15 | 2.70 | 2.04 | 2.03 |
| 2600.0 | 4.91 | 4.80 | 0.11 | 3.55 | 10.06 | 2.74 | 2.06 | 2.06 |
| 2650.0 | 5.11 | 4.99 | 0.12 | 3.67 | 9.64 | 2.95 | 2.17 | 2.17 |
| 2660.0 | 5.14 | 5.03 | 0.11 | 3.72 | 9.57 | 3.00 | 2.19 | 2.20 |
| 2670.0 | 5.19 | 5.07 | 0.12 | 3.76 | 9.50 | 3.04 | 2.21 | 2.22 |
| 2680.0 | 5.24 | 5.12 | 0.12 | 3.74 | 9.41 | 3.08 | 2.24 | 2.23 |
| 2690.0 | 5.28 | 5.16 | 0.12 | 3.74 | 9.33 | 3.14 | 2.26 | 2.25 |
| 2700.0 | 5.32 | 5.21 | 0.11 | 3.82 | 9.27 | 3.19 | 2.28 | 2.28 |
| 2750.0 | 5.55 | 5.43 | 0.12 | 3.97 | 8.91 | 3.43 | 2.39 | 2.39 |
| 2800.0 | 5.79 | 5.66 | 0.13 | 4.18 | 8.59 | 3.70 | 2.52 | 2.51 |
| 2850.0 | 6.02 | 5.90 | 0.12 | 4.35 | 8.27 | 4.01 | 2.64 | 2.61 |
| 2900.0 | 6.29 | 6.16 | 0.13 | 4.55 | 7.99 | 4.32 | 2.76 | 2.73 |
| 2950.0 | 6.57 | 6.45 | 0.12 | 4.88 | 7.75 | 4.64 | 2.88 | 2.84 |
| 3000.0 | 6.86 | 6.72 | 0.14 | 5.09 | 7.47 | 4.99 | 3.00 | 2.94 |

¹Total Loss = Insertion Loss + 3dB Splitter Loss

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