

2 Way-0° Power Splitter/Combiner

SP-2W+

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 |
| 500 | 3.62 | 3.61 | 0.01 | 0.33 | 3.87 | 1.94 | 1.91 | 1.91 |
| 1000 | 3.64 | 3.60 | 0.04 | 0.68 | 4.32 | 1.88 | 1.88 | 1.86 |
| 1500 | 3.63 | 3.59 | 0.04 | 0.84 | 5.13 | 1.82 | 1.82 | 1.79 |
| 1750 | 3.62 | 3.55 | 0.07 | 0.93 | 5.75 | 1.76 | 1.75 | 1.73 |
| 2000 | 3.58 | 3.52 | 0.06 | 0.90 | 6.56 | 1.69 | 1.67 | 1.64 |
| 2250 | 3.55 | 3.48 | 0.07 | 1.01 | 7.65 | 1.61 | 1.58 | 1.54 |
| 2500 | 3.51 | 3.45 | 0.06 | 1.10 | 9.16 | 1.51 | 1.47 | 1.43 |
| 2750 | 3.46 | 3.41 | 0.05 | 1.07 | 11.23 | 1.41 | 1.34 | 1.30 |
| 3000 | 3.42 | 3.39 | 0.03 | 1.07 | 14.18 | 1.31 | 1.21 | 1.17 |
| 3200 | 3.40 | 3.38 | 0.02 | 1.14 | 17.71 | 1.24 | 1.11 | 1.08 |
| 3250 | 3.39 | 3.38 | 0.01 | 1.19 | 18.83 | 1.23 | 1.08 | 1.06 |
| 3300 | 3.39 | 3.39 | 0.00 | 1.20 | 20.18 | 1.22 | 1.06 | 1.04 |
| 3325 | 3.39 | 3.39 | 0.00 | 1.21 | 20.95 | 1.21 | 1.04 | 1.03 |
| 3350 | 3.39 | 3.39 | 0.00 | 1.23 | 21.75 | 1.21 | 1.03 | 1.03 |
| 3375 | 3.39 | 3.39 | 0.00 | 1.24 | 22.60 | 1.20 | 1.02 | 1.04 |
| 3400 | 3.39 | 3.40 | 0.01 | 1.28 | 23.53 | 1.20 | 1.01 | 1.04 |
| 3425 | 3.39 | 3.40 | 0.01 | 1.30 | 24.58 | 1.20 | 1.01 | 1.05 |
| 3450 | 3.40 | 3.40 | 0.00 | 1.31 | 25.75 | 1.20 | 1.02 | 1.06 |
| 3475 | 3.40 | 3.41 | 0.01 | 1.33 | 27.07 | 1.20 | 1.03 | 1.07 |
| 3500 | 3.40 | 3.42 | 0.02 | 1.35 | 28.50 | 1.21 | 1.05 | 1.08 |
| 3525 | 3.41 | 3.42 | 0.01 | 1.39 | 29.88 | 1.21 | 1.06 | 1.10 |
| 3550 | 3.41 | 3.43 | 0.02 | 1.42 | 31.08 | 1.22 | 1.07 | 1.11 |
| 3575 | 3.42 | 3.44 | 0.02 | 1.44 | 31.81 | 1.23 | 1.09 | 1.13 |
| 3600 | 3.42 | 3.44 | 0.02 | 1.46 | 31.88 | 1.24 | 1.10 | 1.14 |
| 3625 | 3.42 | 3.45 | 0.03 | 1.49 | 31.25 | 1.25 | 1.12 | 1.15 |
| 3650 | 3.43 | 3.46 | 0.03 | 1.51 | 30.01 | 1.26 | 1.13 | 1.17 |
| 3675 | 3.44 | 3.47 | 0.03 | 1.54 | 28.63 | 1.28 | 1.15 | 1.18 |
| 3700 | 3.45 | 3.48 | 0.03 | 1.56 | 27.21 | 1.29 | 1.17 | 1.20 |
| 3725 | 3.46 | 3.49 | 0.03 | 1.61 | 25.96 | 1.30 | 1.18 | 1.21 |
| 3750 | 3.47 | 3.51 | 0.04 | 1.64 | 24.86 | 1.32 | 1.20 | 1.23 |
| 3775 | 3.48 | 3.52 | 0.04 | 1.67 | 23.88 | 1.34 | 1.22 | 1.24 |
| 3800 | 3.49 | 3.54 | 0.05 | 1.70 | 22.99 | 1.36 | 1.23 | 1.26 |
| 3850 | 3.52 | 3.57 | 0.05 | 1.77 | 21.32 | 1.40 | 1.27 | 1.29 |
| 3900 | 3.55 | 3.60 | 0.05 | 1.86 | 19.92 | 1.45 | 1.31 | 1.32 |
| 3950 | 3.59 | 3.64 | 0.05 | 1.91 | 18.78 | 1.50 | 1.35 | 1.36 |
| 4000 | 3.62 | 3.69 | 0.07 | 1.99 | 17.73 | 1.56 | 1.39 | 1.40 |
| 4050 | 3.67 | 3.73 | 0.06 | 2.07 | 16.76 | 1.62 | 1.44 | 1.43 |
| 4100 | 3.72 | 3.79 | 0.07 | 2.17 | 15.92 | 1.69 | 1.48 | 1.47 |
| 4150 | 3.78 | 3.85 | 0.07 | 2.25 | 15.17 | 1.76 | 1.53 | 1.51 |
| 4200 | 3.86 | 3.92 | 0.06 | 2.34 | 14.46 | 1.84 | 1.58 | 1.56 |
| 4250 | 3.92 | 3.99 | 0.07 | 2.47 | 13.79 | 1.92 | 1.64 | 1.60 |
| 4300 | 4.00 | 4.07 | 0.07 | 2.58 | 13.19 | 2.02 | 1.69 | 1.64 |
| 4350 | 4.11 | 4.16 | 0.05 | 2.67 | 12.64 | 2.12 | 1.75 | 1.69 |
| 4400 | 4.20 | 4.26 | 0.05 | 2.80 | 12.08 | 2.23 | 1.81 | 1.74 |
| 4450 | 4.32 | 4.37 | 0.05 | 2.93 | 11.58 | 2.36 | 1.88 | 1.79 |
| 4500 | 4.44 | 4.48 | 0.04 | 3.00 | 11.10 | 2.49 | 1.94 | 1.84 |
| 4550 | 4.58 | 4.61 | 0.03 | 3.10 | 10.64 | 2.63 | 2.00 | 1.89 |
| 4600 | 4.72 | 4.74 | 0.02 | 3.21 | 10.20 | 2.79 | 2.07 | 1.94 |
| 4650 | 4.87 | 4.89 | 0.01 | 3.30 | 9.78 | 2.96 | 2.13 | 1.99 |
| 4700 | 5.05 | 5.05 | 0.00 | 3.36 | 9.39 | 3.15 | 2.20 | 2.04 |
| 4750 | 5.23 | 5.22 | 0.01 | 3.49 | 8.99 | 3.36 | 2.26 | 2.10 |
| 4800 | 5.42 | 5.40 | 0.02 | 3.56 | 8.62 | 3.58 | 2.33 | 2.16 |
| 4900 | 5.85 | 5.80 | 0.05 | 3.63 | 7.93 | 4.09 | 2.45 | 2.26 |
| 5000 | 6.34 | 6.25 | 0.09 | 3.74 | 7.28 | 4.69 | 2.57 | 2.36 |

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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100627

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2 Way-0° Power Splitter/Combiner

SP-2W+

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 |
| 500 | 3.56 | 3.58 | 0.02 | 0.52 | 3.80 | 1.95 | 1.93 | 1.93 |
| 1000 | 3.56 | 3.53 | 0.03 | 1.20 | 4.22 | 1.89 | 1.90 | 1.88 |
| 1500 | 3.52 | 3.50 | 0.02 | 1.59 | 4.98 | 1.83 | 1.85 | 1.82 |
| 1750 | 3.50 | 3.44 | 0.06 | 1.83 | 5.57 | 1.77 | 1.78 | 1.75 |
| 2000 | 3.45 | 3.42 | 0.03 | 2.10 | 6.37 | 1.70 | 1.69 | 1.67 |
| 2250 | 3.42 | 3.37 | 0.05 | 2.32 | 7.42 | 1.63 | 1.60 | 1.55 |
| 2500 | 3.37 | 3.33 | 0.04 | 2.66 | 8.89 | 1.55 | 1.48 | 1.43 |
| 2750 | 3.32 | 3.28 | 0.04 | 2.66 | 10.94 | 1.45 | 1.36 | 1.30 |
| 3000 | 3.27 | 3.23 | 0.04 | 2.80 | 13.91 | 1.33 | 1.25 | 1.18 |
| 3200 | 3.23 | 3.21 | 0.02 | 2.86 | 17.34 | 1.24 | 1.14 | 1.09 |
| 3250 | 3.22 | 3.21 | 0.01 | 2.92 | 18.46 | 1.22 | 1.11 | 1.08 |
| 3300 | 3.21 | 3.22 | 0.01 | 2.98 | 19.78 | 1.20 | 1.09 | 1.07 |
| 3325 | 3.21 | 3.22 | 0.01 | 3.00 | 20.51 | 1.19 | 1.08 | 1.06 |
| 3350 | 3.21 | 3.22 | 0.01 | 3.04 | 21.25 | 1.19 | 1.07 | 1.05 |
| 3375 | 3.21 | 3.22 | 0.01 | 3.07 | 22.02 | 1.18 | 1.05 | 1.04 |
| 3400 | 3.21 | 3.22 | 0.01 | 3.12 | 22.85 | 1.18 | 1.04 | 1.04 |
| 3425 | 3.21 | 3.23 | 0.02 | 3.16 | 23.76 | 1.19 | 1.03 | 1.05 |
| 3450 | 3.21 | 3.23 | 0.02 | 3.19 | 24.80 | 1.19 | 1.03 | 1.06 |
| 3475 | 3.21 | 3.24 | 0.03 | 3.22 | 25.96 | 1.19 | 1.04 | 1.07 |
| 3500 | 3.21 | 3.24 | 0.03 | 3.26 | 27.32 | 1.20 | 1.05 | 1.07 |
| 3525 | 3.21 | 3.25 | 0.04 | 3.32 | 28.71 | 1.20 | 1.07 | 1.08 |
| 3550 | 3.22 | 3.25 | 0.03 | 3.38 | 30.10 | 1.21 | 1.08 | 1.10 |
| 3575 | 3.22 | 3.26 | 0.04 | 3.43 | 31.08 | 1.22 | 1.10 | 1.11 |
| 3600 | 3.23 | 3.27 | 0.04 | 3.47 | 31.64 | 1.23 | 1.11 | 1.12 |
| 3625 | 3.23 | 3.27 | 0.04 | 3.50 | 31.57 | 1.25 | 1.13 | 1.14 |
| 3650 | 3.23 | 3.28 | 0.05 | 3.55 | 30.62 | 1.26 | 1.14 | 1.15 |
| 3675 | 3.24 | 3.29 | 0.05 | 3.59 | 29.37 | 1.27 | 1.16 | 1.17 |
| 3700 | 3.25 | 3.30 | 0.05 | 3.64 | 27.87 | 1.29 | 1.18 | 1.18 |
| 3725 | 3.26 | 3.31 | 0.05 | 3.72 | 26.54 | 1.31 | 1.20 | 1.20 |
| 3750 | 3.27 | 3.32 | 0.05 | 3.77 | 25.30 | 1.32 | 1.21 | 1.21 |
| 3775 | 3.28 | 3.33 | 0.05 | 3.85 | 24.25 | 1.34 | 1.23 | 1.23 |
| 3800 | 3.29 | 3.34 | 0.05 | 3.89 | 23.30 | 1.36 | 1.25 | 1.24 |
| 3850 | 3.32 | 3.37 | 0.05 | 3.97 | 21.55 | 1.41 | 1.29 | 1.27 |
| 3900 | 3.35 | 3.40 | 0.05 | 4.07 | 20.04 | 1.45 | 1.33 | 1.30 |
| 3950 | 3.39 | 3.43 | 0.04 | 4.13 | 18.86 | 1.50 | 1.37 | 1.34 |
| 4000 | 3.43 | 3.47 | 0.04 | 4.22 | 17.79 | 1.56 | 1.41 | 1.38 |
| 4050 | 3.47 | 3.51 | 0.04 | 4.32 | 16.81 | 1.63 | 1.47 | 1.42 |
| 4100 | 3.52 | 3.57 | 0.05 | 4.39 | 15.94 | 1.69 | 1.52 | 1.46 |
| 4150 | 3.58 | 3.62 | 0.04 | 4.45 | 15.19 | 1.77 | 1.56 | 1.51 |
| 4200 | 3.65 | 3.68 | 0.03 | 4.49 | 14.45 | 1.85 | 1.61 | 1.55 |
| 4250 | 3.71 | 3.75 | 0.04 | 4.63 | 13.78 | 1.93 | 1.66 | 1.60 |
| 4300 | 3.78 | 3.82 | 0.04 | 4.76 | 13.20 | 2.02 | 1.72 | 1.65 |
| 4350 | 3.88 | 3.91 | 0.03 | 4.81 | 12.63 | 2.12 | 1.78 | 1.70 |
| 4400 | 3.97 | 4.00 | 0.03 | 4.86 | 12.06 | 2.24 | 1.84 | 1.75 |
| 4450 | 4.08 | 4.10 | 0.02 | 4.90 | 11.54 | 2.37 | 1.90 | 1.82 |
| 4500 | 4.17 | 4.21 | 0.04 | 4.92 | 11.03 | 2.49 | 1.94 | 1.86 |
| 4550 | 4.30 | 4.34 | 0.04 | 5.10 | 10.58 | 2.63 | 2.00 | 1.92 |
| 4600 | 4.44 | 4.48 | 0.04 | 5.25 | 10.15 | 2.80 | 2.08 | 1.98 |
| 4650 | 4.59 | 4.62 | 0.03 | 5.41 | 9.71 | 2.98 | 2.15 | 2.04 |
| 4700 | 4.75 | 4.76 | 0.01 | 5.45 | 9.28 | 3.16 | 2.20 | 2.08 |
| 4750 | 4.91 | 4.92 | 0.01 | 5.47 | 8.87 | 3.36 | 2.24 | 2.12 |
| 4800 | 5.09 | 5.11 | 0.02 | 5.62 | 8.49 | 3.59 | 2.32 | 2.20 |
| 4900 | 5.49 | 5.51 | 0.02 | 5.66 | 7.84 | 4.11 | 2.46 | 2.32 |
| 5000 | 5.97 | 6.00 | 0.03 | 6.00 | 7.15 | 4.79 | 2.60 | 2.45 |

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

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2 Way-0° Power Splitter/Combiner

SP-2W+

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 |
| 500 | 3.64 | 3.65 | 0.01 | 0.20 | 3.90 | 1.93 | 1.89 | 1.90 |
| 1000 | 3.69 | 3.66 | 0.03 | 0.27 | 4.37 | 1.88 | 1.86 | 1.84 |
| 1500 | 3.70 | 3.66 | 0.04 | 0.15 | 5.23 | 1.82 | 1.80 | 1.77 |
| 1750 | 3.70 | 3.63 | 0.07 | 0.08 | 5.87 | 1.76 | 1.74 | 1.71 |
| 2000 | 3.67 | 3.60 | 0.07 | 0.16 | 6.71 | 1.68 | 1.67 | 1.63 |
| 2250 | 3.63 | 3.57 | 0.06 | 0.21 | 7.83 | 1.59 | 1.58 | 1.54 |
| 2500 | 3.59 | 3.54 | 0.05 | 0.31 | 9.37 | 1.49 | 1.47 | 1.43 |
| 2750 | 3.55 | 3.52 | 0.03 | 0.41 | 11.44 | 1.38 | 1.34 | 1.31 |
| 3000 | 3.51 | 3.51 | 0.00 | 0.47 | 14.40 | 1.29 | 1.20 | 1.18 |
| 3200 | 3.51 | 3.51 | 0.00 | 0.42 | 17.95 | 1.23 | 1.09 | 1.07 |
| 3250 | 3.51 | 3.52 | 0.01 | 0.38 | 19.10 | 1.22 | 1.06 | 1.04 |
| 3300 | 3.52 | 3.53 | 0.01 | 0.41 | 20.47 | 1.22 | 1.04 | 1.02 |
| 3325 | 3.52 | 3.53 | 0.01 | 0.41 | 21.26 | 1.22 | 1.02 | 1.01 |
| 3350 | 3.52 | 3.53 | 0.01 | 0.40 | 22.08 | 1.22 | 1.01 | 1.02 |
| 3375 | 3.52 | 3.54 | 0.02 | 0.39 | 22.94 | 1.22 | 1.01 | 1.03 |
| 3400 | 3.53 | 3.54 | 0.01 | 0.37 | 23.92 | 1.22 | 1.02 | 1.04 |
| 3425 | 3.53 | 3.55 | 0.02 | 0.36 | 24.99 | 1.22 | 1.03 | 1.06 |
| 3450 | 3.54 | 3.55 | 0.01 | 0.36 | 26.20 | 1.23 | 1.04 | 1.07 |
| 3475 | 3.54 | 3.56 | 0.02 | 0.38 | 27.56 | 1.23 | 1.05 | 1.09 |
| 3500 | 3.54 | 3.57 | 0.03 | 0.39 | 28.93 | 1.24 | 1.07 | 1.10 |
| 3525 | 3.55 | 3.58 | 0.03 | 0.38 | 30.28 | 1.24 | 1.08 | 1.11 |
| 3550 | 3.56 | 3.59 | 0.03 | 0.37 | 31.29 | 1.25 | 1.09 | 1.13 |
| 3575 | 3.57 | 3.60 | 0.03 | 0.37 | 31.77 | 1.26 | 1.11 | 1.15 |
| 3600 | 3.57 | 3.61 | 0.04 | 0.37 | 31.54 | 1.27 | 1.12 | 1.16 |
| 3625 | 3.58 | 3.62 | 0.04 | 0.37 | 30.69 | 1.29 | 1.14 | 1.18 |
| 3650 | 3.59 | 3.63 | 0.04 | 0.36 | 29.36 | 1.30 | 1.15 | 1.19 |
| 3675 | 3.60 | 3.64 | 0.04 | 0.37 | 27.99 | 1.31 | 1.17 | 1.21 |
| 3700 | 3.60 | 3.65 | 0.05 | 0.37 | 26.66 | 1.33 | 1.18 | 1.22 |
| 3725 | 3.62 | 3.67 | 0.05 | 0.35 | 25.51 | 1.34 | 1.19 | 1.24 |
| 3750 | 3.63 | 3.68 | 0.05 | 0.33 | 24.45 | 1.36 | 1.21 | 1.26 |
| 3775 | 3.64 | 3.70 | 0.06 | 0.31 | 23.53 | 1.38 | 1.23 | 1.28 |
| 3800 | 3.65 | 3.71 | 0.06 | 0.28 | 22.67 | 1.39 | 1.24 | 1.29 |
| 3850 | 3.68 | 3.75 | 0.07 | 0.27 | 21.05 | 1.43 | 1.28 | 1.33 |
| 3900 | 3.71 | 3.79 | 0.08 | 0.22 | 19.72 | 1.48 | 1.31 | 1.36 |
| 3950 | 3.75 | 3.83 | 0.08 | 0.19 | 18.61 | 1.52 | 1.35 | 1.40 |
| 4000 | 3.79 | 3.88 | 0.09 | 0.14 | 17.58 | 1.58 | 1.39 | 1.43 |
| 4050 | 3.83 | 3.93 | 0.10 | 0.03 | 16.63 | 1.63 | 1.43 | 1.47 |
| 4100 | 3.89 | 4.00 | 0.11 | 0.02 | 15.84 | 1.70 | 1.47 | 1.50 |
| 4150 | 3.94 | 4.06 | 0.12 | 0.12 | 15.11 | 1.77 | 1.52 | 1.54 |
| 4200 | 4.02 | 4.13 | 0.11 | 0.25 | 14.40 | 1.84 | 1.57 | 1.58 |
| 4250 | 4.09 | 4.22 | 0.13 | 0.33 | 13.74 | 1.92 | 1.62 | 1.62 |
| 4300 | 4.17 | 4.30 | 0.13 | 0.44 | 13.16 | 2.01 | 1.67 | 1.66 |
| 4350 | 4.27 | 4.39 | 0.12 | 0.58 | 12.61 | 2.11 | 1.73 | 1.70 |
| 4400 | 4.37 | 4.49 | 0.13 | 0.73 | 12.05 | 2.22 | 1.79 | 1.74 |
| 4450 | 4.48 | 4.61 | 0.12 | 0.87 | 11.58 | 2.33 | 1.85 | 1.79 |
| 4500 | 4.61 | 4.72 | 0.11 | 0.94 | 11.12 | 2.47 | 1.92 | 1.83 |
| 4550 | 4.75 | 4.86 | 0.10 | 1.18 | 10.65 | 2.60 | 1.99 | 1.88 |
| 4600 | 4.90 | 4.99 | 0.09 | 1.30 | 10.21 | 2.76 | 2.06 | 1.93 |
| 4650 | 5.06 | 5.14 | 0.08 | 1.39 | 9.83 | 2.93 | 2.12 | 1.97 |
| 4700 | 5.24 | 5.31 | 0.07 | 1.48 | 9.44 | 3.11 | 2.19 | 2.02 |
| 4750 | 5.44 | 5.47 | 0.03 | 1.65 | 9.08 | 3.30 | 2.26 | 2.08 |
| 4800 | 5.63 | 5.65 | 0.02 | 1.72 | 8.69 | 3.53 | 2.33 | 2.13 |
| 4900 | 6.09 | 6.05 | 0.04 | 1.89 | 8.01 | 4.02 | 2.46 | 2.22 |
| 5000 | 6.60 | 6.51 | 0.09 | 1.96 | 7.38 | 4.61 | 2.57 | 2.30 |

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

