

2 Way-0° Power Splitter/Combiner

ZC2PD-K0644+

Typical Performance Data

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

| FREQUENCY (MHz) | TOTAL LOSS ¹ (dB) | | AMPLITUDE UNBALANCE (dB) | ISOLATION (dB) 1-2 | PHASE UNBALANCE (Deg) | FREQUENCY (MHz) | VSWR (:1) | | |
|--------------------|---------------------------------|------|--------------------------------|--------------------------|-----------------------------|--------------------|--------------|------|------|
| | S-1 | S-2 | | | | | S | 1 | 2 |
| 10 | 3.53 | 3.53 | 0.01 | 3.55 | 0.00 | 10 | 1.99 | 1.98 | 1.99 |
| 100 | 3.48 | 3.49 | 0.01 | 3.63 | 0.16 | 100 | 1.99 | 1.96 | 1.98 |
| 1000 | 3.46 | 3.49 | 0.02 | 6.81 | 0.23 | 1000 | 1.93 | 1.45 | 1.47 |
| 2000 | 3.28 | 3.34 | 0.06 | 11.82 | 0.44 | 2000 | 1.74 | 1.03 | 1.04 |
| 3000 | 3.17 | 3.21 | 0.04 | 14.05 | 0.48 | 3000 | 1.43 | 1.19 | 1.18 |
| 4000 | 3.09 | 3.15 | 0.06 | 15.53 | 0.59 | 4000 | 1.19 | 1.28 | 1.29 |
| 5000 | 3.10 | 3.17 | 0.07 | 17.97 | 0.73 | 5000 | 1.03 | 1.28 | 1.28 |
| 6000 | 3.13 | 3.20 | 0.06 | 21.96 | 0.82 | 6000 | 1.02 | 1.16 | 1.17 |
| 7000 | 3.19 | 3.24 | 0.06 | 26.81 | 0.90 | 7000 | 1.08 | 1.16 | 1.16 |
| 8000 | 3.22 | 3.27 | 0.05 | 25.57 | 1.05 | 8000 | 1.09 | 1.18 | 1.18 |
| 9000 | 3.26 | 3.31 | 0.05 | 24.29 | 1.18 | 9000 | 1.04 | 1.11 | 1.11 |
| 10000 | 3.29 | 3.35 | 0.06 | 25.41 | 1.30 | 10000 | 1.08 | 1.10 | 1.10 |
| 11000 | 3.33 | 3.39 | 0.06 | 29.40 | 1.44 | 11000 | 1.05 | 1.12 | 1.12 |
| 12000 | 3.38 | 3.44 | 0.06 | 32.25 | 1.58 | 12000 | 1.12 | 1.19 | 1.20 |
| 13000 | 3.41 | 3.48 | 0.08 | 29.01 | 1.69 | 13000 | 1.12 | 1.22 | 1.24 |
| 14000 | 3.43 | 3.50 | 0.07 | 27.71 | 1.81 | 14000 | 1.06 | 1.15 | 1.19 |
| 15000 | 3.47 | 3.54 | 0.07 | 29.47 | 1.84 | 15000 | 1.12 | 1.10 | 1.14 |
| 16000 | 3.50 | 3.56 | 0.07 | 33.58 | 2.01 | 16000 | 1.14 | 1.08 | 1.11 |
| 17000 | 3.53 | 3.59 | 0.07 | 32.84 | 2.11 | 17000 | 1.10 | 1.10 | 1.11 |
| 18000 | 3.55 | 3.61 | 0.06 | 30.51 | 2.19 | 18000 | 1.04 | 1.15 | 1.14 |
| 19000 | 3.58 | 3.64 | 0.06 | 28.78 | 2.33 | 19000 | 1.03 | 1.14 | 1.12 |
| 20000 | 3.61 | 3.67 | 0.06 | 28.36 | 2.54 | 20000 | 1.09 | 1.14 | 1.13 |
| 21000 | 3.65 | 3.72 | 0.07 | 29.06 | 2.71 | 21000 | 1.17 | 1.19 | 1.19 |
| 22000 | 3.69 | 3.76 | 0.07 | 32.80 | 2.86 | 22000 | 1.20 | 1.21 | 1.21 |
| 23000 | 3.68 | 3.75 | 0.08 | 33.65 | 2.98 | 23000 | 1.07 | 1.10 | 1.11 |
| 24000 | 3.73 | 3.81 | 0.08 | 27.07 | 3.10 | 24000 | 1.18 | 1.07 | 1.06 |
| 25000 | 3.77 | 3.85 | 0.08 | 25.11 | 3.15 | 25000 | 1.21 | 1.08 | 1.07 |
| 26000 | 3.75 | 3.84 | 0.09 | 26.92 | 3.30 | 26000 | 1.05 | 1.06 | 1.07 |
| 27000 | 3.81 | 3.90 | 0.09 | 36.56 | 3.51 | 27000 | 1.18 | 1.21 | 1.23 |
| 28000 | 3.82 | 3.92 | 0.10 | 31.89 | 3.59 | 28000 | 1.17 | 1.22 | 1.25 |
| 29000 | 3.83 | 3.93 | 0.10 | 25.97 | 3.74 | 29000 | 1.06 | 1.12 | 1.15 |
| 30000 | 3.91 | 4.01 | 0.10 | 25.17 | 3.81 | 30000 | 1.26 | 1.16 | 1.17 |
| 31000 | 3.92 | 4.01 | 0.09 | 27.85 | 3.94 | 31000 | 1.24 | 1.11 | 1.13 |
| 32000 | 3.92 | 4.01 | 0.09 | 35.71 | 4.10 | 32000 | 1.07 | 1.08 | 1.09 |
| 33000 | 3.97 | 4.07 | 0.10 | 32.18 | 4.20 | 33000 | 1.20 | 1.17 | 1.21 |
| 34000 | 3.98 | 4.09 | 0.11 | 28.23 | 4.29 | 34000 | 1.18 | 1.14 | 1.21 |
| 35000 | 3.99 | 4.11 | 0.12 | 28.15 | 4.37 | 35000 | 1.10 | 1.11 | 1.18 |
| 36000 | 4.03 | 4.13 | 0.10 | 29.96 | 4.45 | 36000 | 1.16 | 1.14 | 1.21 |
| 37000 | 4.05 | 4.17 | 0.11 | 35.71 | 4.65 | 37000 | 1.20 | 1.15 | 1.20 |
| 38000 | 4.07 | 4.18 | 0.11 | 42.98 | 4.65 | 38000 | 1.13 | 1.11 | 1.12 |
| 39000 | 4.12 | 4.22 | 0.11 | 30.63 | 4.84 | 39000 | 1.08 | 1.02 | 1.01 |
| 40000 | 4.14 | 4.26 | 0.12 | 27.66 | 4.93 | 40000 | 1.19 | 1.09 | 1.09 |
| 41000 | 4.12 | 4.24 | 0.12 | 27.35 | 5.02 | 41000 | 1.11 | 1.06 | 1.04 |
| 42000 | 4.15 | 4.29 | 0.13 | 30.19 | 5.07 | 42000 | 1.08 | 1.09 | 1.17 |
| 43000 | 4.25 | 4.36 | 0.11 | 35.30 | 5.15 | 43000 | 1.26 | 1.20 | 1.23 |
| 43500 | 4.24 | 4.35 | 0.10 | 35.10 | 5.20 | 43500 | 1.25 | 1.22 | 1.22 |

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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11/15/2018

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2 Way-0° Power Splitter/Combiner

ZC2PD-K0644+

Typical Performance Data

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

| FREQUENCY (MHz) | TOTAL LOSS ¹ (dB) | | AMPLITUDE UNBALANCE (dB) | ISOLATION (dB) 1-2 | PHASE UNBALANCE (Deg) | FREQUENCY (MHz) | VSWR (:1) | | |
|--------------------|---------------------------------|------|--------------------------------|--------------------------|-----------------------------|--------------------|--------------|------|------|
| | S-1 | S-2 | | | | | S | 1 | 2 |
| 10 | 3.49 | 3.52 | 0.04 | 3.52 | 0.17 | 10 | 2.01 | 2.01 | 2.01 |
| 100 | 3.37 | 3.44 | 0.07 | 3.57 | 0.00 | 100 | 2.00 | 1.99 | 1.99 |
| 1000 | 3.36 | 3.41 | 0.05 | 6.68 | 0.33 | 1000 | 1.98 | 1.43 | 1.44 |
| 2000 | 3.17 | 3.25 | 0.08 | 11.78 | 0.27 | 2000 | 1.81 | 1.01 | 1.01 |
| 3000 | 3.04 | 3.11 | 0.07 | 14.23 | 0.34 | 3000 | 1.46 | 1.18 | 1.18 |
| 4000 | 2.95 | 3.02 | 0.07 | 15.72 | 0.44 | 4000 | 1.19 | 1.27 | 1.27 |
| 5000 | 2.97 | 3.05 | 0.08 | 18.14 | 0.52 | 5000 | 1.02 | 1.28 | 1.29 |
| 6000 | 3.00 | 3.07 | 0.07 | 21.74 | 0.62 | 6000 | 1.02 | 1.16 | 1.17 |
| 7000 | 3.06 | 3.12 | 0.06 | 26.53 | 0.68 | 7000 | 1.09 | 1.16 | 1.17 |
| 8000 | 3.10 | 3.15 | 0.06 | 26.27 | 0.86 | 8000 | 1.11 | 1.20 | 1.20 |
| 9000 | 3.13 | 3.18 | 0.05 | 24.82 | 1.00 | 9000 | 1.04 | 1.12 | 1.12 |
| 10000 | 3.16 | 3.22 | 0.06 | 25.49 | 1.11 | 10000 | 1.10 | 1.09 | 1.09 |
| 11000 | 3.19 | 3.26 | 0.07 | 28.58 | 1.22 | 11000 | 1.06 | 1.09 | 1.10 |
| 12000 | 3.23 | 3.30 | 0.07 | 31.77 | 1.35 | 12000 | 1.10 | 1.17 | 1.18 |
| 13000 | 3.27 | 3.35 | 0.08 | 29.66 | 1.43 | 13000 | 1.12 | 1.22 | 1.24 |
| 14000 | 3.29 | 3.37 | 0.08 | 28.51 | 1.55 | 14000 | 1.07 | 1.16 | 1.20 |
| 15000 | 3.33 | 3.40 | 0.07 | 30.14 | 1.56 | 15000 | 1.11 | 1.10 | 1.14 |
| 16000 | 3.36 | 3.43 | 0.07 | 32.83 | 1.72 | 16000 | 1.14 | 1.08 | 1.11 |
| 17000 | 3.39 | 3.46 | 0.07 | 31.88 | 1.80 | 17000 | 1.09 | 1.10 | 1.11 |
| 18000 | 3.43 | 3.49 | 0.06 | 30.90 | 1.86 | 18000 | 1.02 | 1.16 | 1.14 |
| 19000 | 3.45 | 3.51 | 0.06 | 29.71 | 2.00 | 19000 | 1.04 | 1.14 | 1.12 |
| 20000 | 3.48 | 3.54 | 0.06 | 29.24 | 2.20 | 20000 | 1.08 | 1.13 | 1.12 |
| 21000 | 3.51 | 3.58 | 0.07 | 28.94 | 2.37 | 21000 | 1.14 | 1.17 | 1.17 |
| 22000 | 3.55 | 3.63 | 0.08 | 31.50 | 2.50 | 22000 | 1.19 | 1.20 | 1.20 |
| 23000 | 3.54 | 3.62 | 0.08 | 33.96 | 2.60 | 23000 | 1.09 | 1.11 | 1.12 |
| 24000 | 3.58 | 3.66 | 0.09 | 27.75 | 2.70 | 24000 | 1.17 | 1.06 | 1.05 |
| 25000 | 3.62 | 3.71 | 0.09 | 25.59 | 2.74 | 25000 | 1.20 | 1.07 | 1.07 |
| 26000 | 3.61 | 3.70 | 0.09 | 27.38 | 2.86 | 26000 | 1.04 | 1.06 | 1.06 |
| 27000 | 3.66 | 3.76 | 0.10 | 36.13 | 3.06 | 27000 | 1.14 | 1.18 | 1.20 |
| 28000 | 3.67 | 3.78 | 0.10 | 31.80 | 3.13 | 28000 | 1.13 | 1.20 | 1.22 |
| 29000 | 3.69 | 3.80 | 0.10 | 26.88 | 3.25 | 29000 | 1.05 | 1.12 | 1.14 |
| 30000 | 3.75 | 3.86 | 0.11 | 25.99 | 3.32 | 30000 | 1.23 | 1.13 | 1.15 |
| 31000 | 3.77 | 3.87 | 0.10 | 28.30 | 3.44 | 31000 | 1.20 | 1.09 | 1.11 |
| 32000 | 3.78 | 3.87 | 0.10 | 33.64 | 3.58 | 32000 | 1.06 | 1.07 | 1.09 |
| 33000 | 3.81 | 3.92 | 0.11 | 32.21 | 3.65 | 33000 | 1.16 | 1.15 | 1.18 |
| 34000 | 3.82 | 3.94 | 0.12 | 29.81 | 3.74 | 34000 | 1.14 | 1.13 | 1.19 |
| 35000 | 3.84 | 3.96 | 0.12 | 29.64 | 3.79 | 35000 | 1.08 | 1.12 | 1.18 |
| 36000 | 3.86 | 3.98 | 0.11 | 29.94 | 3.90 | 36000 | 1.12 | 1.13 | 1.18 |
| 37000 | 3.89 | 4.01 | 0.13 | 33.90 | 4.06 | 37000 | 1.18 | 1.14 | 1.19 |
| 38000 | 3.91 | 4.03 | 0.12 | 46.06 | 4.03 | 38000 | 1.13 | 1.12 | 1.14 |
| 39000 | 3.93 | 4.04 | 0.11 | 31.22 | 4.16 | 39000 | 1.06 | 1.03 | 1.01 |
| 40000 | 3.95 | 4.09 | 0.13 | 28.07 | 4.27 | 40000 | 1.16 | 1.09 | 1.07 |
| 41000 | 3.93 | 4.06 | 0.13 | 27.93 | 4.36 | 41000 | 1.12 | 1.07 | 1.03 |
| 42000 | 3.96 | 4.10 | 0.14 | 30.35 | 4.42 | 42000 | 1.05 | 1.08 | 1.13 |
| 43000 | 4.06 | 4.18 | 0.12 | 35.10 | 4.52 | 43000 | 1.26 | 1.21 | 1.23 |
| 43500 | 4.05 | 4.17 | 0.12 | 35.19 | 4.56 | 43500 | 1.27 | 1.25 | 1.23 |

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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2 Way-0° Power Splitter/Combiner

ZC2PD-K0644+

Typical Performance Data

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

| FREQUENCY (MHz) | TOTAL LOSS ¹ (dB) | | AMPLITUDE UNBALANCE (dB) | ISOLATION (dB) 1-2 | PHASE UNBALANCE (Deg) | FREQUENCY (MHz) | VSWR (:1) | | |
|--------------------|---------------------------------|------|--------------------------------|--------------------------|-----------------------------|--------------------|--------------|------|------|
| | S-1 | S-2 | | | | | S | 1 | 2 |
| 10 | 3.49 | 3.56 | 0.06 | 3.53 | 0.16 | 10 | 2.00 | 2.00 | 2.00 |
| 100 | 3.44 | 3.53 | 0.09 | 3.57 | 0.04 | 100 | 1.99 | 1.99 | 1.99 |
| 1000 | 3.44 | 3.50 | 0.06 | 6.57 | 0.36 | 1000 | 1.89 | 1.57 | 1.57 |
| 2000 | 3.28 | 3.38 | 0.10 | 12.79 | 0.27 | 2000 | 1.70 | 1.10 | 1.11 |
| 3000 | 3.18 | 3.27 | 0.09 | 15.48 | 0.33 | 3000 | 1.44 | 1.17 | 1.17 |
| 4000 | 3.10 | 3.19 | 0.09 | 15.94 | 0.40 | 4000 | 1.20 | 1.29 | 1.28 |
| 5000 | 3.11 | 3.21 | 0.11 | 17.75 | 0.49 | 5000 | 1.03 | 1.28 | 1.28 |
| 6000 | 3.14 | 3.24 | 0.10 | 22.61 | 0.59 | 6000 | 1.02 | 1.14 | 1.15 |
| 7000 | 3.18 | 3.27 | 0.09 | 31.59 | 0.63 | 7000 | 1.06 | 1.11 | 1.12 |
| 8000 | 3.22 | 3.31 | 0.09 | 25.97 | 0.77 | 8000 | 1.08 | 1.17 | 1.18 |
| 9000 | 3.26 | 3.34 | 0.09 | 23.83 | 0.84 | 9000 | 1.04 | 1.12 | 1.12 |
| 10000 | 3.28 | 3.38 | 0.09 | 25.67 | 0.93 | 10000 | 1.08 | 1.10 | 1.11 |
| 11000 | 3.31 | 3.41 | 0.10 | 32.31 | 1.04 | 11000 | 1.05 | 1.10 | 1.10 |
| 12000 | 3.36 | 3.45 | 0.10 | 35.11 | 1.14 | 12000 | 1.12 | 1.17 | 1.17 |
| 13000 | 3.38 | 3.49 | 0.11 | 28.63 | 1.22 | 13000 | 1.13 | 1.22 | 1.24 |
| 14000 | 3.40 | 3.51 | 0.10 | 27.10 | 1.31 | 14000 | 1.05 | 1.15 | 1.18 |
| 15000 | 3.44 | 3.54 | 0.10 | 29.59 | 1.30 | 15000 | 1.12 | 1.08 | 1.12 |
| 16000 | 3.47 | 3.57 | 0.10 | 38.43 | 1.46 | 16000 | 1.14 | 1.06 | 1.10 |
| 17000 | 3.49 | 3.59 | 0.10 | 34.52 | 1.52 | 17000 | 1.11 | 1.10 | 1.11 |
| 18000 | 3.52 | 3.61 | 0.10 | 29.93 | 1.54 | 18000 | 1.06 | 1.16 | 1.15 |
| 19000 | 3.54 | 3.63 | 0.09 | 28.19 | 1.64 | 19000 | 1.03 | 1.14 | 1.13 |
| 20000 | 3.58 | 3.67 | 0.10 | 28.97 | 1.82 | 20000 | 1.13 | 1.14 | 1.13 |
| 21000 | 3.62 | 3.72 | 0.10 | 31.19 | 1.95 | 21000 | 1.18 | 1.20 | 1.20 |
| 22000 | 3.64 | 3.75 | 0.10 | 35.57 | 2.07 | 22000 | 1.18 | 1.20 | 1.20 |
| 23000 | 3.63 | 3.74 | 0.11 | 32.03 | 2.16 | 23000 | 1.05 | 1.08 | 1.09 |
| 24000 | 3.69 | 3.80 | 0.11 | 27.03 | 2.22 | 24000 | 1.18 | 1.07 | 1.06 |
| 25000 | 3.71 | 3.83 | 0.12 | 25.87 | 2.24 | 25000 | 1.19 | 1.07 | 1.06 |
| 26000 | 3.71 | 3.83 | 0.12 | 28.37 | 2.32 | 26000 | 1.05 | 1.07 | 1.08 |
| 27000 | 3.76 | 3.89 | 0.13 | 38.95 | 2.45 | 27000 | 1.17 | 1.20 | 1.21 |
| 28000 | 3.77 | 3.90 | 0.13 | 30.70 | 2.51 | 28000 | 1.14 | 1.20 | 1.22 |
| 29000 | 3.80 | 3.93 | 0.13 | 26.23 | 2.59 | 29000 | 1.08 | 1.12 | 1.14 |
| 30000 | 3.86 | 3.99 | 0.13 | 26.06 | 2.64 | 30000 | 1.23 | 1.15 | 1.15 |
| 31000 | 3.87 | 3.99 | 0.12 | 28.90 | 2.71 | 31000 | 1.21 | 1.09 | 1.11 |
| 32000 | 3.87 | 4.00 | 0.12 | 34.89 | 2.78 | 32000 | 1.06 | 1.07 | 1.08 |
| 33000 | 3.92 | 4.05 | 0.13 | 31.36 | 2.83 | 33000 | 1.17 | 1.16 | 1.18 |
| 34000 | 3.93 | 4.07 | 0.14 | 28.64 | 2.89 | 34000 | 1.16 | 1.13 | 1.18 |
| 35000 | 3.95 | 4.09 | 0.14 | 29.17 | 2.91 | 35000 | 1.09 | 1.10 | 1.16 |
| 36000 | 3.97 | 4.11 | 0.13 | 31.11 | 2.96 | 36000 | 1.13 | 1.13 | 1.18 |
| 37000 | 3.99 | 4.13 | 0.14 | 36.02 | 3.09 | 37000 | 1.15 | 1.12 | 1.17 |
| 38000 | 4.02 | 4.16 | 0.14 | 51.67 | 3.03 | 38000 | 1.13 | 1.12 | 1.14 |
| 39000 | 4.04 | 4.17 | 0.13 | 31.83 | 3.10 | 39000 | 1.06 | 1.05 | 1.03 |
| 40000 | 4.08 | 4.23 | 0.15 | 27.96 | 3.13 | 40000 | 1.18 | 1.08 | 1.07 |
| 41000 | 4.07 | 4.21 | 0.15 | 27.59 | 3.20 | 41000 | 1.12 | 1.07 | 1.04 |
| 42000 | 4.09 | 4.26 | 0.17 | 30.22 | 3.19 | 42000 | 1.04 | 1.06 | 1.14 |
| 43000 | 4.18 | 4.33 | 0.15 | 35.47 | 3.18 | 43000 | 1.25 | 1.18 | 1.22 |
| 43500 | 4.18 | 4.32 | 0.14 | 36.08 | 3.19 | 43500 | 1.25 | 1.21 | 1.22 |

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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