## Calculated output power selection sheet of push-pull converter

Unit : W

| 20KHz | 50KHz | 100KHz | 250KHz | PLANAR | RM | EFD | EP | EER | EE | EI | PQ | TOROID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.5 | 0.8 | 1.1 | 1.4 | | | | | EER0905 | EE0606 | | | |
| 0.7 | 1.3 | 1.7 | 3.3 | | | | EP7 | EER1105 | | | | |
| 1.1 | 1.1 | 2.2 | 3.3 | | | EFD0808 | | | EE0804 | | | |
| 2.1 | 2.9 | 4.2 | 7.9 | PEI1405 | RM4 | | | | | | | |
| 3.1 | 4.7 | 6.2 | 10.9 | PEE1407 | | | EP10 | | EE1312 | | | T1307 |
| 4.7 | 7.8 | 9.3 | 18.6 | PEI1806 | | EFD1515 | | | EE1215 | | | |
| 8.0 | 12.5 | 17.9 | 35.0 | PEE1808 | RM6 | EFD1618 | EP13 | | | | | |
| 9.3 | 12.4 | 15.5 | 32.6 | | | EFD1820 | | | EE1614 | EI1614 | | T1405 |
| 12.0 | 18.0 | 24.0 | 48.0 | | | EFD2023C | | | EE1916 | EI1916 | | |
| 12.4 | 20.1 | 27.5 | 50.2 | | | EFD2124 | | | | | | |
| 18.6 | 27.9 | 41.9 | 82.2 | PEI2208 | | | | | EE2416 | EI2218 | PQ2016 | |
| 20.2 | 31.0 | 46.5 | 91.5 | PEE2211 | | | | | EE2519F | | | |
| 23.3 | 34.1 | 49.6 | 96.1 | | RM8 | | | | | | | |
| 29.5 | 66.7 | 89.9 | 145.7 | | | | | | | | | T1911 |
| 32.0 | 58.0 | 76.0 | 149.0 | | | EFD2525 | | | | | PQ2021 | |
| 43.4 | 69.8 | 100.8 | 196.9 | | | | | | EE2721 | | | |
| 46.5 | 76.0 | 108.5 | 212.4 | | | | | | | | | T1910A |
| 51.2 | 82.2 | 124.0 | 241.8 | | RM10 | EFD3030 | | | | EI2820 | PQ2620 | |
| 62.0 | 94.6 | 147.3 | 286.8 | | | | | | EE2525W | | | |
| 65.1 | 108.5 | 155.0 | 302.3 | | | | | EER2828D | | | | |
| 80.0 | 140.0 | 185.0 | 376.0 | | | | | | | | PQ2625 | |
| 74.4 | 116.3 | 170.5 | 413.0 | | | | | | EE3026B | | | |
| 90.0 | 150.0 | 212.0 | 408.0 | | | | | EER3019N | | | | |
| 105.0 | 172.0 | 260.0 | 480.0 | | | EFD3133 | | EER2834D | | | | |
| 108.5 | 170.5 | 263.5 | 514.6 | | | | | | | EI3026 | PQ3220 | |
| 150.0 | 250.0 | 345.0 | 680.0 | | | | | EER3530 | | | | T2907A |
| 162.8 | 248.0 | 364.3 | 713.0 | | | | | EER3534 | EE3042 | | | |
| 170.5 | 294.5 | 387.5 | 744.0 | | | | | | | | PQ3230 | |
| 201.5 | 317.8 | 449.5 | 883.5 | | | | | EER3540L | EE3549 | EI4035 | | T2915 |
| 205.0 | 330.0 | 470.0 | 905.0 | | | | | EER3541D | | | | |
| 217.0 | 333.3 | 527.0 | 987.9 | | | | | EER3543D | | | | T3113B |
| 232.5 | 372.0 | 589.0 | 1148.6 | | | | | EER3940F | | | | |
| 294.5 | 465.0 | 728.5 | 1421.4 | | | | | EER3945 | | | | T3710 |
| 310.0 | 480.5 | 775.0 | 1511.3 | | | | | EER4045 | | | | |
| 341.0 | 542.5 | 821.5 | 1602.7 | | | | | EER4242 | | | | T3813 |
| 356.5 | 542.5 | 852.5 | 1664.8 | | | | | | | | PQ3535 | |
| 403.0 | 620.0 | 930.0 | 1813.5 | | | | | EER4243 | EE4220 | | | |
| 465.0 | 697.5 | 1085.0 | 2115.8 | | | | | | | EI5042 | | |
| 527.0 | 852.5 | 1317.5 | 2569.9 | | | | | | | | PQ4040 | |
| 635.5 | 1007.5 | 1550.0 | 3022.5 | | | | | EER4942 | | | | |
| 750.2 | 1240.0 | 1810.0 | 3410.0 | | | | | EER4954 | | | | T4416 |
| 1085.0 | 1705.0 | 2790.0 | 5440.5 | | | | | | EE5555A | | PQ5050 | |
| 1317.5 | 2015.0 | 2945.0 | 5742.8 | PEI6415 | | | | | | | | T4919 |
| 1395.0 | 2325.0 | 3100.0 | 6045.0 | | | | | | EE5555C | EI7056 | | |
| 2480.0 | 4030.0 | 5735.0 | 11183.3 | PEE6420 | | | | | | | | T6020 |
| 3100.0 | 4650.0 | 7130.0 | 13903.5 | | | | | | EE7091 | | | |
| 4340.0 | 6510.0 | 10075.0 | 19646.3 | | | | | | | | | T7822 |

Note : 1) Core loss to be approximately 100mW/$cm^3$.

2) Flux density used in each frequency as below : 200mT at 20KHz, 150mT at 50KHz, 100mT at 100KHz, 80mT at 250KHz.

3) This sheet do not imply that a specific material or optimium temperature condition, so should be consider before choosing the ferrite core.

## Calculated output power selection sheet of flyback converter

Unit : W

| 20KHz | 50KHz | 100KHz | 250KHz | PLANAR | RM | EFD | EP | EER | EE | EI | PQ | TOROID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.2 | 0.4 | 0.5 | 0.7 | | | | | EER0905 | EE0606 | | | |
| 0.3 | 0.6 | 0.9 | 1.7 | | | | EP7 | EER1105 | | | | |
| 0.6 | 0.6 | 1.1 | 1.7 | | | EFD0808 | | | EE0804 | | | |
| 1.1 | 1.5 | 2.1 | 4.0 | PEI1405 | RM4 | | | | | | | |
| 1.6 | 2.3 | 3.1 | 5.4 | PEE1407 | | | EP10 | | EE1312 | | | T1307 |
| 2.3 | 3.9 | 4.7 | 9.3 | PEI1806 | | EFD1515 | | | EE1215 | | | |
| 4.0 | 6.3 | 9.0 | 17.5 | PEE1808 | RM6 | EFD1618 | EP13 | | | | | |
| 4.7 | 6.2 | 7.8 | 16.3 | | | EFD1820 | | | EE1614 | EI1614 | | T1405 |
| 6.0 | 9.0 | 12.0 | 24.0 | | | EFD2023C | | | EE1916 | EI1916 | | |
| 6.2 | 10.1 | 13.8 | 25.1 | | | EFD2124 | | | | | | |
| 9.3 | 14.0 | 20.9 | 41.1 | PEI2208 | | | | | EE2416 | EI2218 | PQ2016 | |
| 10.1 | 15.5 | 23.2 | 45.7 | PEE2211 | | | | | EE2519F | | | |
| 11.6 | 17.1 | 24.8 | 48.1 | | RM8 | | | | | | | |
| 14.7 | 33.3 | 45.0 | 72.9 | | | | | | | | | T1911 |
| 16.0 | 29.0 | 38.0 | 74.5 | | | EFD2525 | | | | | PQ2021 | |
| 21.7 | 34.9 | 50.4 | 98.4 | | | | | | EE2721 | | | |
| 23.3 | 38.0 | 54.3 | 106.2 | | | | | | | | | T1910A |
| 25.6 | 41.1 | 62.0 | 120.9 | | RM10 | EFD3030 | | | | EI2820 | PQ2620 | |
| 31.0 | 47.3 | 73.6 | 143.4 | | | | | | EE2525W | | | |
| 32.6 | 54.3 | 77.5 | 151.1 | | | | | EER2828D | | | | |
| 40.0 | 70.0 | 92.5 | 188.0 | | | | | | | | PQ2625 | |
| 37.2 | 58.1 | 85.3 | 217.0 | | | | | | EE3026B | | | |
| 45.0 | 75.0 | 106.0 | 204.0 | | | | | EER3019N | | | | |
| 52.5 | 86.0 | 130.0 | 240.0 | | | EFD3133 | | EER2834D | | | | |
| 54.3 | 85.3 | 131.8 | 257.3 | | | | | | | EI3026 | PQ3220 | |
| 75.0 | 125.0 | 172.5 | 340.0 | | | | | EER3530 | | | | T2907A |
| 81.4 | 124.0 | 182.1 | 356.5 | | | | | EER3534 | EE3042 | | | |
| 85.3 | 147.3 | 193.8 | 372.0 | | | | | | | | PQ3230 | |
| 100.8 | 158.9 | 224.8 | 441.8 | | | | | EER3540L | EE3549 | EI4035 | | T2915 |
| 102.5 | 165.0 | 235.0 | 452.5 | | | | | EER3541D | | | | |
| 108.5 | 166.6 | 263.5 | 493.9 | | | | | EER3543D | | | | T3113B |
| 116.3 | 186.0 | 294.5 | 574.3 | | | | | EER3940F | | | | |
| 147.3 | 232.5 | 364.3 | 710.7 | | | | | EER3945 | | | | T3710 |
| 155.0 | 240.3 | 387.5 | 755.6 | | | | | EER4045 | | | | |
| 170.5 | 271.3 | 410.8 | 801.4 | | | | | EER4242 | | | | T3813 |
| 178.3 | 271.3 | 426.3 | 832.4 | | | | | | | | PQ3535 | |
| 201.5 | 310.0 | 465.0 | 906.8 | | | | | EER4243 | EE4220 | | | |
| 232.5 | 348.8 | 542.5 | 1057.9 | | | | | | | EI5042 | | |
| 263.5 | 426.3 | 658.8 | 1285.0 | | | | | | | | PQ4040 | |
| 317.8 | 503.8 | 775.0 | 1511.3 | | | | | EER4942 | | | | |
| 426.3 | 620.0 | 1007.5 | 1964.6 | | | | | EER4954 | | | | T4416 |
| 542.5 | 852.5 | 1395.0 | 2720.3 | | | | | | EE5555A | | PQ5050 | |
| 658.8 | 1007.5 | 1472.5 | 2871.4 | PEI6415 | | | | | | | | T4919 |
| 697.5 | 1162.5 | 1550.0 | 3022.5 | | | | | | EE5555C | EI7056 | | |
| 1240.0 | 2015.0 | 2867.5 | 5591.6 | PEE6420 | | | | | | | | T6020 |
| 1550.0 | 2325.0 | 3565.0 | 6951.8 | | | | | | EE7091 | | | |
| 2170.0 | 3255.0 | 5037.5 | 9823.1 | | | | | | | | | T7822 |

Note : 1) Core loss to be approximately 100mW/㎤.
2) Flux density used in each frequency as below : 200mT at 20KHz, 150mT at 50KHz, 100mT at 100KHz, 80mT at 250KHz.
3) This sheet do not imply that a specific material or optimium temperature condition, so should be consider before choosing the ferrite core.

## Calculated output power selection sheet of forward converter

Unit : W

| 20KHz | 50KHz | 100KHz | 250KHz | PLANAR | RM | EFD | EP | EER | EE | EI | PQ | TOROID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.2 | 0.3 | 0.4 | 0.5 | | | | | EER0905 | EE0606 | | | |
| 0.2 | 0.4 | 0.6 | 1.1 | | | | EP7 | EER1105 | | | | |
| 0.4 | 0.4 | 0.7 | 1.1 | | | EFD0808 | | | EE0804 | | | |
| 0.7 | 1.0 | 1.4 | 2.6 | PEI1405 | RM4 | | | | | | | |
| 1.0 | 1.5 | 2.0 | 3.6 | PEE1407 | | | EP10 | | EE1312 | | | T1307 |
| 1.5 | 2.6 | 3.1 | 6.1 | PEI1806 | | EFD1515 | | | EE1215 | | | |
| 2.6 | 4.1 | 5.9 | 11.6 | PEE1808 | RM6 | EFD1618 | EP13 | | | | | |
| 3.1 | 4.1 | 5.1 | 10.7 | | | EFD1820 | | | EE1614 | EI1614 | | T1405 |
| 4.0 | 5.9 | 7.9 | 15.8 | | | EFD2023C | | | EE1916 | EI1916 | | |
| 4.1 | 6.6 | 9.1 | 16.6 | | | EFD2124 | | | | | | |
| 6.1 | 9.2 | 13.8 | 27.1 | PEI2208 | | | | | EE2416 | EI2218 | PQ2016 | |
| 6.6 | 10.2 | 15.3 | 30.2 | PEE2211 | | | | | EE2519F | | | |
| 7.7 | 11.3 | 16.4 | 31.7 | | RM8 | | | | | | | |
| 9.7 | 22.0 | 29.7 | 48.1 | | | | | | | | | T1911 |
| 10.6 | 19.1 | 25.1 | 49.2 | | | EFD2525 | | | | | PQ2021 | |
| 14.3 | 23.0 | 33.2 | 65.0 | | | | | | EE2721 | | | |
| 15.3 | 25.1 | 35.8 | 70.1 | | | | | | | | | T1910A |
| 16.9 | 27.1 | 40.9 | 79.8 | | RM10 | EFD3030 | | | | EI2820 | PQ2620 | |
| 20.5 | 31.2 | 48.6 | 94.6 | | | | | | EE2525W | | | |
| 21.5 | 35.8 | 51.2 | 99.7 | | | | | EER2828D | | | | |
| 26.4 | 46.2 | 61.1 | 124.1 | | | | | | | | PQ2625 | |
| 24.6 | 38.4 | 56.3 | 138.0 | | | | | | EE3026B | | | |
| 29.7 | 49.5 | 70.0 | 134.6 | | | | | EER3019N | | | | |
| 34.7 | 56.8 | 85.8 | 158.4 | | | EFD3133 | | EER2834D | | | | |
| 35.8 | 56.3 | 87.0 | 169.8 | | | | | | | EI3026 | PQ3220 | |
| 49.5 | 82.5 | 113.9 | 224.4 | | | | | EER3530 | | | | T2907A |
| 53.7 | 81.8 | 120.2 | 235.3 | | | | | EER3534 | EE3042 | | | |
| 56.3 | 97.2 | 127.9 | 245.5 | | | | | | | | PQ3230 | |
| 66.5 | 104.9 | 148.3 | 291.6 | | | | | EER3540L | EE3549 | EI4035 | | T2915 |
| 67.7 | 108.9 | 155.1 | 298.7 | | | | | EER3541D | | | | |
| 71.6 | 110.0 | 173.9 | 326.0 | | | | | EER3543D | | | | T3113B |
| 76.7 | 122.8 | 194.4 | 379.0 | | | | | EER3940F | | | | |
| 97.2 | 153.5 | 240.4 | 469.0 | | | | | EER3945 | | | | T3710 |
| 102.3 | 158.6 | 255.8 | 498.7 | | | | | EER4045 | | | | |
| 112.5 | 179.0 | 271.1 | 528.9 | | | | | EER4242 | | | | T3813 |
| 117.6 | 179.0 | 281.3 | 549.4 | | | | | | | | PQ3535 | |
| 133.0 | 204.6 | 306.9 | 598.5 | | | | | EER4243 | EE4220 | | | |
| 153.5 | 230.2 | 358.1 | 698.2 | | | | | | | EI5042 | | |
| 173.9 | 281.3 | 434.8 | 848.1 | | | | | | | | PQ4040 | |
| 209.7 | 332.5 | 511.5 | 997.4 | | | | | EER4942 | | | | |
| 248.2 | 409.2 | 597.5 | 1125.0 | | | | | EER4954 | | | | T4416 |
| 358.1 | 562.7 | 920.7 | 1795.4 | | | | | | EE5555A | | PQ5050 | |
| 434.8 | 665.0 | 971.9 | 1895.1 | PEI6415 | | | | | | | | T4919 |
| 460.4 | 767.3 | 1023.0 | 1994.9 | | | | | | EE5555C | EI7056 | | |
| 818.4 | 1329.9 | 1892.6 | 3690.5 | PEE6420 | | | | | | | | T6020 |
| 1023.0 | 1534.5 | 2352.9 | 4588.2 | | | | | | EE7091 | | | |
| 1432.2 | 2148.3 | 3324.8 | 6483.3 | | | | | | | | | T7822 |



Note : 1) Core loss to be approximately 100mW/㎤.
2) Flux density used in each frequency as below : 200mT at 20KHz, 150mT at 50KHz, 100mT at 100KHz, 80mT at 250KHz.
3) This sheet do not imply that a specific material or optimium temperature condition, so should be consider before choosing the ferrite core.