

NEMA 1 / 12 Enclosure Fan CFM Sizing Chart

This chart will assist you in making a rapid evaluation of the airflow required to cool the average electronics enclosure, if the approximate wattage to be dissipated and the acceptable temperature rise are known. This chart is based on an altitude of 3300 feet or less. Consult the equipment manufacturer for higher altitudes.

NEMA 1 / 12 Enclosure Fan CFM Sizing Chart.

.

| Power in Enclosure(WATTS) | CFM for 10C rise | CFM for 15C rise | CFM for 20C rise | CFM for 25C rise |
|---------------------------|------------------|------------------|------------------|------------------|
| 25 | 4 | 3 | 2 | 2 |
| 50 | 9 | 6 | 4 | 4 |
| 75 | 13 | 9 | 7 | 5 |
| 100 | 18 | 12 | 9 | 7 |
| 125 | 22 | 15 | 11 | 9 |
| 150 | 26 | 18 | 13 | 11 |
| 175 | 31 | 21 | 15 | 12 |
| 200 | 35 | 23 | 18 | 14 |
| 225 | 40 | 26 | 20 | 16 |
| 250 | 44 | 29 | 22 | 18 |
| 275 | 48 | 32 | 24 | 19 |
| 300 | 53 | 35 | 26 | 21 |
| 325 | 57 | 38 | 29 | 23 |
| 350 | 62 | 41 | 31 | 25 |
| 375 | 66 | 44 | 33 | 26 |
| 400 | 70 | 47 | 35 | 28 |
| 425 | 75 | 50 | 37 | 30 |
| 450 | 79 | 53 | 40 | 32 |
| 475 | 84 | 56 | 42 | 33 |
| 500 | 88 | 59 | 44 | 35 |
| 525 | 92 | 62 | 46 | 37 |
| 550 | 97 | 65 | 48 | 39 |
| 575 | 101 | 67 | 51 | 40 |
| 600 | 106 | 70 | 53 | 42 |
| 625 | 110 | 73 | 55 | 44 |
| 650 | 114 | 76 | 57 | 46 |
| 675 | 119 | 79 | 59 | 48 |
| 700 | 123 | 82 | 62 | 49 |
| 725 | 128 | 85 | 64 | 51 |
| 750 | 132 | 88 | 66 | 53 |
| 775 | 136 | 91 | 68 | 55 |
| 800 | 141 | 94 | 70 | 56 |
| 825 | 145 | 97 | 73 | 58 |

| | | | | |
|------|-----|-----|-----|-----|
| 850 | 150 | 100 | 75 | 60 |
| 875 | 154 | 103 | 77 | 62 |
| 900 | 158 | 106 | 79 | 63 |
| 925 | 163 | 109 | 81 | 65 |
| 950 | 167 | 111 | 84 | 67 |
| 975 | 172 | 114 | 86 | 69 |
| 1000 | 176 | 117 | 88 | 70 |
| 1025 | 180 | 120 | 90 | 72 |
| 1050 | 185 | 123 | 92 | 74 |
| 1075 | 189 | 126 | 95 | 76 |
| 1100 | 194 | 129 | 97 | 77 |
| 1125 | 198 | 132 | 99 | 79 |
| 1150 | 202 | 135 | 101 | 81 |
| 1175 | 207 | 138 | 103 | 83 |
| 1200 | 211 | 141 | 106 | 84 |
| 1225 | 216 | 144 | 108 | 86 |
| 1250 | 220 | 147 | 110 | 88 |
| 1275 | 224 | 150 | 112 | 90 |
| 1300 | 229 | 153 | 114 | 92 |
| 1325 | 233 | 155 | 117 | 93 |
| 1350 | 238 | 158 | 119 | 95 |
| 1375 | 242 | 161 | 121 | 97 |
| 1400 | 246 | 164 | 123 | 99 |
| 1425 | 251 | 167 | 125 | 100 |
| 1450 | 255 | 170 | 128 | 102 |
| 1475 | 260 | 173 | 130 | 104 |
| 1500 | 264 | 176 | 132 | 106 |
| 1525 | 268 | 179 | 134 | 107 |
| 1550 | 273 | 182 | 136 | 109 |
| 1575 | 277 | 185 | 139 | 111 |
| 1600 | 282 | 188 | 141 | 113 |
| 1625 | 286 | 191 | 143 | 114 |
| 1650 | 290 | 194 | 145 | 116 |
| 1675 | 295 | 197 | 147 | 118 |
| 1700 | 299 | 199 | 150 | 120 |
| 1725 | 304 | 202 | 152 | 121 |
| 1750 | 308 | 205 | 154 | 123 |
| 1775 | 312 | 208 | 156 | 125 |
| 1800 | 317 | 211 | 158 | 127 |
| 1825 | 321 | 214 | 161 | 128 |
| 1850 | 326 | 217 | 163 | 130 |
| 1875 | 330 | 220 | 165 | 132 |
| 1900 | 334 | 223 | 167 | 134 |
| 1925 | 339 | 226 | 169 | 136 |
| 1950 | 343 | 229 | 172 | 137 |

| | | | | |
|------|-----|-----|-----|-----|
| 1975 | 348 | 232 | 174 | 139 |
| 2000 | 352 | 235 | 176 | 141 |
| 2025 | 356 | 238 | 178 | 143 |
| 2050 | 361 | 241 | 180 | 144 |
| 2075 | 365 | 243 | 183 | 146 |
| 2100 | 370 | 246 | 185 | 148 |
| 2125 | 374 | 249 | 187 | 150 |
| 2150 | 378 | 252 | 189 | 151 |
| 2175 | 383 | 255 | 191 | 153 |
| 2200 | 387 | 258 | 194 | 155 |
| 2225 | 392 | 261 | 196 | 157 |
| 2250 | 396 | 264 | 198 | 158 |
| 2275 | 400 | 267 | 200 | 160 |
| 2300 | 405 | 270 | 202 | 162 |
| 2325 | 409 | 273 | 205 | 164 |
| 2350 | 414 | 276 | 207 | 165 |
| 2375 | 418 | 279 | 209 | 167 |
| 2400 | 422 | 282 | 211 | 169 |
| 2425 | 427 | 285 | 213 | 171 |
| 2450 | 431 | 287 | 216 | 172 |
| 2475 | 436 | 290 | 218 | 174 |
| 2500 | 440 | 293 | 220 | 176 |
| 2525 | 444 | 296 | 222 | 178 |
| 2550 | 449 | 299 | 224 | 180 |
| 2575 | 453 | 302 | 227 | 181 |
| 2600 | 458 | 305 | 229 | 183 |
| 2625 | 462 | 308 | 231 | 185 |
| 2650 | 466 | 311 | 233 | 187 |
| 2675 | 471 | 314 | 235 | 188 |
| 2700 | 475 | 317 | 238 | 190 |
| 2725 | 480 | 320 | 240 | 192 |
| 2750 | 484 | 323 | 242 | 194 |
| 2775 | 488 | 326 | 244 | 195 |
| 2800 | 493 | 329 | 246 | 197 |
| 2825 | 497 | 331 | 249 | 199 |
| 2850 | 502 | 334 | 251 | 201 |
| 2875 | 506 | 337 | 253 | 202 |
| 2900 | 510 | 340 | 255 | 204 |
| 2925 | 515 | 343 | 257 | 206 |
| 2950 | 519 | 346 | 260 | 208 |
| 2975 | 524 | 349 | 262 | 209 |
| 3000 | 528 | 352 | 264 | 211 |
| 3025 | 532 | 355 | 266 | 213 |
| 3050 | 537 | 358 | 268 | 215 |
| 3075 | 541 | 361 | 271 | 216 |

| | | | | |
|------|-----|-----|-----|-----|
| 3100 | 546 | 364 | 273 | 218 |
| 3125 | 550 | 367 | 275 | 220 |
| 3150 | 554 | 370 | 277 | 222 |
| 3175 | 559 | 373 | 279 | 224 |
| 3200 | 563 | 375 | 282 | 225 |
| 3225 | 568 | 378 | 284 | 227 |
| 3250 | 572 | 381 | 286 | 229 |
| 3275 | 576 | 384 | 288 | 231 |
| 3300 | 581 | 387 | 290 | 232 |
| 3325 | 585 | 390 | 293 | 234 |
| 3350 | 590 | 393 | 295 | 236 |
| 3375 | 594 | 396 | 297 | 238 |
| 3400 | 598 | 399 | 299 | 239 |
| 3425 | 603 | 402 | 301 | 241 |
| 3450 | 607 | 405 | 304 | 243 |
| 3475 | 612 | 408 | 306 | 245 |
| 3500 | 616 | 411 | 308 | 246 |
| 3525 | 620 | 414 | 310 | 248 |
| 3550 | 625 | 417 | 312 | 250 |
| 3575 | 629 | 419 | 315 | 252 |
| 3600 | 634 | 422 | 317 | 253 |
| 3625 | 638 | 425 | 319 | 255 |
| 3650 | 642 | 428 | 321 | 257 |
| 3675 | 647 | 431 | 323 | 259 |
| 3700 | 651 | 434 | 326 | 260 |
| 3725 | 656 | 437 | 328 | 262 |
| 3750 | 660 | 440 | 330 | 264 |
| 3775 | 664 | 443 | 332 | 266 |
| 3800 | 669 | 446 | 334 | 268 |
| 3825 | 673 | 449 | 337 | 269 |
| 3850 | 678 | 452 | 339 | 271 |
| 3875 | 682 | 455 | 341 | 273 |
| 3900 | 686 | 458 | 343 | 275 |
| 3925 | 691 | 461 | 345 | 276 |
| 3950 | 695 | 463 | 348 | 278 |
| 3975 | 700 | 466 | 350 | 280 |
| 4000 | 704 | 469 | 352 | 282 |
| 4025 | 708 | 472 | 354 | 283 |
| 4050 | 713 | 475 | 356 | 285 |
| 4075 | 717 | 478 | 359 | 287 |
| 4100 | 722 | 481 | 361 | 289 |
| 4125 | 726 | 484 | 363 | 290 |
| 4150 | 730 | 487 | 365 | 292 |
| 4175 | 735 | 490 | 367 | 294 |
| 4200 | 739 | 493 | 370 | 296 |

| | | | | |
|------|-----|-----|-----|-----|
| 4225 | 744 | 496 | 372 | 297 |
| 4250 | 748 | 499 | 374 | 299 |
| 4275 | 752 | 502 | 376 | 301 |
| 4300 | 757 | 505 | 378 | 303 |
| 4325 | 761 | 507 | 381 | 304 |
| 4350 | 766 | 510 | 383 | 306 |
| 4375 | 770 | 513 | 385 | 308 |
| 4400 | 774 | 516 | 387 | 310 |
| 4425 | 779 | 519 | 389 | 312 |
| 4450 | 783 | 522 | 392 | 313 |
| 4475 | 788 | 525 | 394 | 315 |
| 4500 | 792 | 528 | 396 | 317 |
| 4525 | 796 | 531 | 398 | 319 |
| 4550 | 801 | 534 | 400 | 320 |
| 4575 | 805 | 537 | 403 | 322 |
| 4600 | 810 | 540 | 405 | 324 |
| 4625 | 814 | 543 | 407 | 326 |
| 4650 | 818 | 546 | 409 | 327 |
| 4675 | 823 | 549 | 411 | 329 |
| 4700 | 827 | 551 | 414 | 331 |
| 4725 | 832 | 554 | 416 | 333 |
| 4750 | 836 | 557 | 418 | 334 |
| 4775 | 840 | 560 | 420 | 336 |
| 4800 | 845 | 563 | 422 | 338 |
| 4825 | 849 | 566 | 425 | 340 |
| 4850 | 854 | 569 | 427 | 341 |
| 4875 | 858 | 572 | 429 | 343 |
| 4900 | 862 | 575 | 431 | 345 |
| 4925 | 867 | 578 | 433 | 347 |
| 4950 | 871 | 581 | 436 | 348 |
| 4975 | 876 | 584 | 438 | 350 |
| 5000 | 880 | 587 | 440 | 352 |
| 5025 | 884 | 590 | 442 | 354 |
| 5050 | 889 | 593 | 444 | 356 |
| 5075 | 893 | 595 | 447 | 357 |
| 5100 | 898 | 598 | 449 | 359 |
| 5125 | 902 | 601 | 451 | 361 |
| 5150 | 906 | 604 | 453 | 363 |
| 5175 | 911 | 607 | 455 | 364 |
| 5200 | 915 | 610 | 458 | 366 |
| 5225 | 920 | 613 | 460 | 368 |
| 5250 | 924 | 616 | 462 | 370 |
| 5275 | 928 | 619 | 464 | 371 |
| 5300 | 933 | 622 | 466 | 373 |
| 5325 | 937 | 625 | 469 | 375 |

| | | | | |
|------|------|-----|-----|-----|
| 5350 | 942 | 628 | 471 | 377 |
| 5375 | 946 | 631 | 473 | 378 |
| 5400 | 950 | 634 | 475 | 380 |
| 5425 | 955 | 637 | 477 | 382 |
| 5450 | 959 | 639 | 480 | 384 |
| 5475 | 964 | 642 | 482 | 385 |
| 5500 | 968 | 645 | 484 | 387 |
| 5525 | 972 | 648 | 486 | 389 |
| 5550 | 977 | 651 | 488 | 391 |
| 5575 | 981 | 654 | 491 | 392 |
| 5600 | 986 | 657 | 493 | 394 |
| 5625 | 990 | 660 | 495 | 396 |
| 5650 | 994 | 663 | 497 | 398 |
| 5675 | 999 | 666 | 499 | 400 |
| 5700 | 1003 | 669 | 502 | 401 |
| 5725 | 1008 | 672 | 504 | 403 |
| 5750 | 1012 | 675 | 506 | 405 |
| 5775 | 1016 | 678 | 508 | 407 |
| 5800 | 1021 | 681 | 510 | 408 |
| 5825 | 1025 | 683 | 513 | 410 |
| 5850 | 1030 | 686 | 515 | 412 |
| 5875 | 1034 | 689 | 517 | 414 |
| 5900 | 1038 | 692 | 519 | 415 |
| 5925 | 1043 | 695 | 521 | 417 |
| 5950 | 1047 | 698 | 524 | 419 |
| 5975 | 1052 | 701 | 526 | 421 |
| 6000 | 1056 | 704 | 528 | 422 |
| 6025 | 1060 | 707 | 530 | 424 |
| 6050 | 1065 | 710 | 532 | 426 |
| 6075 | 1069 | 713 | 535 | 428 |
| 6100 | 1074 | 716 | 537 | 429 |
| 6125 | 1078 | 719 | 539 | 431 |
| 6150 | 1082 | 722 | 541 | 433 |
| 6175 | 1087 | 725 | 543 | 435 |
| 6200 | 1091 | 727 | 546 | 436 |
| 6225 | 1096 | 730 | 548 | 438 |
| 6250 | 1100 | 733 | 550 | 440 |
| 6275 | 1104 | 736 | 552 | 442 |
| 6300 | 1109 | 739 | 554 | 444 |
| 6325 | 1113 | 742 | 557 | 445 |
| 6350 | 1118 | 745 | 559 | 447 |
| 6375 | 1122 | 748 | 561 | 449 |
| 6400 | 1126 | 751 | 563 | 451 |
| 6425 | 1131 | 754 | 565 | 452 |
| 6450 | 1135 | 757 | 568 | 454 |

| | | | | |
|------|------|-----|-----|-----|
| 6475 | 1140 | 760 | 570 | 456 |
| 6500 | 1144 | 763 | 572 | 458 |
| 6525 | 1148 | 766 | 574 | 459 |
| 6550 | 1153 | 769 | 576 | 461 |
| 6575 | 1157 | 771 | 579 | 463 |
| 6600 | 1162 | 774 | 581 | 465 |
| 6625 | 1166 | 777 | 583 | 466 |
| 6650 | 1170 | 780 | 585 | 468 |
| 6675 | 1175 | 783 | 587 | 470 |
| 6700 | 1179 | 786 | 590 | 472 |
| 6725 | 1184 | 789 | 592 | 473 |
| 6750 | 1188 | 792 | 594 | 475 |
| 6775 | 1192 | 795 | 596 | 477 |
| 6800 | 1197 | 798 | 598 | 479 |
| 6825 | 1201 | 801 | 601 | 480 |
| 6850 | 1206 | 804 | 603 | 482 |
| 6875 | 1210 | 807 | 605 | 484 |
| 6900 | 1214 | 810 | 607 | 486 |
| 6925 | 1219 | 813 | 609 | 488 |
| 6950 | 1223 | 815 | 612 | 489 |
| 6975 | 1228 | 818 | 614 | 491 |
| 7000 | 1232 | 821 | 616 | 493 |
| 7025 | 1236 | 824 | 618 | 495 |
| 7050 | 1241 | 827 | 620 | 496 |
| 7075 | 1245 | 830 | 623 | 498 |
| 7100 | 1250 | 833 | 625 | 500 |
| 7125 | 1254 | 836 | 627 | 502 |
| 7150 | 1258 | 839 | 629 | 503 |
| 7175 | 1263 | 842 | 631 | 505 |
| 7200 | 1267 | 845 | 634 | 507 |
| 7225 | 1272 | 848 | 636 | 509 |
| 7250 | 1276 | 851 | 638 | 510 |
| 7275 | 1280 | 854 | 640 | 512 |
| 7300 | 1285 | 857 | 642 | 514 |
| 7325 | 1289 | 859 | 645 | 516 |
| 7350 | 1294 | 862 | 647 | 517 |
| 7375 | 1298 | 865 | 649 | 519 |
| 7400 | 1302 | 868 | 651 | 521 |
| 7425 | 1307 | 871 | 653 | 523 |
| 7450 | 1311 | 874 | 656 | 524 |
| 7475 | 1316 | 877 | 658 | 526 |
| 7500 | 1320 | 880 | 660 | 528 |
| 7525 | 1324 | 883 | 662 | 530 |
| 7550 | 1329 | 886 | 664 | 532 |
| 7575 | 1333 | 889 | 667 | 533 |

| | | | | |
|------|------|------|-----|-----|
| 7600 | 1338 | 892 | 669 | 535 |
| 7625 | 1342 | 895 | 671 | 537 |
| 7650 | 1346 | 898 | 673 | 539 |
| 7675 | 1351 | 901 | 675 | 540 |
| 7700 | 1355 | 903 | 678 | 542 |
| 7725 | 1360 | 906 | 680 | 544 |
| 7750 | 1364 | 909 | 682 | 546 |
| 7775 | 1368 | 912 | 684 | 547 |
| 7800 | 1373 | 915 | 686 | 549 |
| 7825 | 1377 | 918 | 689 | 551 |
| 7850 | 1382 | 921 | 691 | 553 |
| 7875 | 1386 | 924 | 693 | 554 |
| 7900 | 1390 | 927 | 695 | 556 |
| 7925 | 1395 | 930 | 697 | 558 |
| 7950 | 1399 | 933 | 700 | 560 |
| 7975 | 1404 | 936 | 702 | 561 |
| 8000 | 1408 | 939 | 704 | 563 |
| 8025 | 1412 | 942 | 706 | 565 |
| 8050 | 1417 | 945 | 708 | 567 |
| 8075 | 1421 | 947 | 711 | 568 |
| 8100 | 1426 | 950 | 713 | 570 |
| 8125 | 1430 | 953 | 715 | 572 |
| 8150 | 1434 | 956 | 717 | 574 |
| 8175 | 1439 | 959 | 719 | 576 |
| 8200 | 1443 | 962 | 722 | 577 |
| 8225 | 1448 | 965 | 724 | 579 |
| 8250 | 1452 | 968 | 726 | 581 |
| 8275 | 1456 | 971 | 728 | 583 |
| 8300 | 1461 | 974 | 730 | 584 |
| 8325 | 1465 | 977 | 733 | 586 |
| 8350 | 1470 | 980 | 735 | 588 |
| 8375 | 1474 | 983 | 737 | 590 |
| 8400 | 1478 | 986 | 739 | 591 |
| 8425 | 1483 | 989 | 741 | 593 |
| 8450 | 1487 | 991 | 744 | 595 |
| 8475 | 1492 | 994 | 746 | 597 |
| 8500 | 1496 | 997 | 748 | 598 |
| 8525 | 1500 | 1000 | 750 | 600 |
| 8550 | 1505 | 1003 | 752 | 602 |
| 8575 | 1509 | 1006 | 755 | 604 |
| 8600 | 1514 | 1009 | 757 | 605 |
| 8625 | 1518 | 1012 | 759 | 607 |
| 8650 | 1522 | 1015 | 761 | 609 |
| 8675 | 1527 | 1018 | 763 | 611 |
| 8700 | 1531 | 1021 | 766 | 612 |

| | | | | |
|------|------|------|-----|-----|
| 8725 | 1536 | 1024 | 768 | 614 |
| 8750 | 1540 | 1027 | 770 | 616 |
| 8775 | 1544 | 1030 | 772 | 618 |
| 8800 | 1549 | 1033 | 774 | 620 |
| 8825 | 1553 | 1035 | 777 | 621 |
| 8850 | 1558 | 1038 | 779 | 623 |
| 8875 | 1562 | 1041 | 781 | 625 |
| 8900 | 1566 | 1044 | 783 | 627 |
| 8925 | 1571 | 1047 | 785 | 628 |
| 8950 | 1575 | 1050 | 788 | 630 |
| 8975 | 1580 | 1053 | 790 | 632 |
| 9000 | 1584 | 1056 | 792 | 634 |
| 9025 | 1588 | 1059 | 794 | 635 |
| 9050 | 1593 | 1062 | 796 | 637 |
| 9075 | 1597 | 1065 | 799 | 639 |
| 9100 | 1602 | 1068 | 801 | 641 |
| 9125 | 1606 | 1071 | 803 | 642 |
| 9150 | 1610 | 1074 | 805 | 644 |
| 9175 | 1615 | 1077 | 807 | 646 |
| 9200 | 1619 | 1079 | 810 | 648 |
| 9225 | 1624 | 1082 | 812 | 649 |
| 9250 | 1628 | 1085 | 814 | 651 |
| 9275 | 1632 | 1088 | 816 | 653 |
| 9300 | 1637 | 1091 | 818 | 655 |
| 9325 | 1641 | 1094 | 821 | 656 |
| 9350 | 1646 | 1097 | 823 | 658 |
| 9375 | 1650 | 1100 | 825 | 660 |
| 9400 | 1654 | 1103 | 827 | 662 |
| 9425 | 1659 | 1106 | 829 | 664 |
| 9450 | 1663 | 1109 | 832 | 665 |
| 9475 | 1668 | 1112 | 834 | 667 |
| 9500 | 1672 | 1115 | 836 | 669 |
| 9525 | 1676 | 1118 | 838 | 671 |
| 9550 | 1681 | 1121 | 840 | 672 |
| 9575 | 1685 | 1123 | 843 | 674 |
| 9600 | 1690 | 1126 | 845 | 676 |
| 9625 | 1694 | 1129 | 847 | 678 |
| 9650 | 1698 | 1132 | 849 | 679 |
| 9675 | 1703 | 1135 | 851 | 681 |
| 9700 | 1707 | 1138 | 854 | 683 |
| 9725 | 1712 | 1141 | 856 | 685 |
| 9750 | 1716 | 1144 | 858 | 686 |
| 9775 | 1720 | 1147 | 860 | 688 |
| 9800 | 1725 | 1150 | 862 | 690 |
| 9825 | 1729 | 1153 | 865 | 692 |

| | | | | |
|-------|------|------|-----|-----|
| 9850 | 1734 | 1156 | 867 | 693 |
| 9875 | 1738 | 1159 | 869 | 695 |
| 9900 | 1742 | 1162 | 871 | 697 |
| 9925 | 1747 | 1165 | 873 | 699 |
| 9950 | 1751 | 1167 | 876 | 700 |
| 9975 | 1756 | 1170 | 878 | 702 |
| 10000 | 1760 | 1173 | 880 | 704 |
| 10025 | 1764 | 1176 | 882 | 706 |
| 10050 | 1769 | 1179 | 884 | 708 |
| 10075 | 1773 | 1182 | 887 | 709 |
| 10100 | 1778 | 1185 | 889 | 711 |
| 10125 | 1782 | 1188 | 891 | 713 |
| 10150 | 1786 | 1191 | 893 | 715 |
| 10175 | 1791 | 1194 | 895 | 716 |
| 10200 | 1795 | 1197 | 898 | 718 |
| 10225 | 1800 | 1200 | 900 | 720 |
| 10250 | 1804 | 1203 | 902 | 722 |
| 10275 | 1808 | 1206 | 904 | 723 |
| 10300 | 1813 | 1209 | 906 | 725 |
| 10325 | 1817 | 1211 | 909 | 727 |
| 10350 | 1822 | 1214 | 911 | 729 |
| 10375 | 1826 | 1217 | 913 | 730 |
| 10400 | 1830 | 1220 | 915 | 732 |
| 10425 | 1835 | 1223 | 917 | 734 |
| 10450 | 1839 | 1226 | 920 | 736 |
| 10475 | 1844 | 1229 | 922 | 737 |
| 10500 | 1848 | 1232 | 924 | 739 |
| 10525 | 1852 | 1235 | 926 | 741 |
| 10550 | 1857 | 1238 | 928 | 743 |
| 10575 | 1861 | 1241 | 931 | 744 |
| 10600 | 1866 | 1244 | 933 | 746 |
| 10625 | 1870 | 1247 | 935 | 748 |
| 10650 | 1874 | 1250 | 937 | 750 |
| 10675 | 1879 | 1253 | 939 | 752 |
| 10700 | 1883 | 1255 | 942 | 753 |
| 10725 | 1888 | 1258 | 944 | 755 |
| 10750 | 1892 | 1261 | 946 | 757 |
| 10775 | 1896 | 1264 | 948 | 759 |
| 10800 | 1901 | 1267 | 950 | 760 |
| 10825 | 1905 | 1270 | 953 | 762 |
| 10850 | 1910 | 1273 | 955 | 764 |
| 10875 | 1914 | 1276 | 957 | 766 |
| 10900 | 1918 | 1279 | 959 | 767 |
| 10925 | 1923 | 1282 | 961 | 769 |
| 10950 | 1927 | 1285 | 964 | 771 |

| | | | | |
|-------|------|------|------|-----|
| 10975 | 1932 | 1288 | 966 | 773 |
| 11000 | 1936 | 1291 | 968 | 774 |
| 11025 | 1940 | 1294 | 970 | 776 |
| 11050 | 1945 | 1297 | 972 | 778 |
| 11075 | 1949 | 1299 | 975 | 780 |
| 11100 | 1954 | 1302 | 977 | 781 |
| 11125 | 1958 | 1305 | 979 | 783 |
| 11150 | 1962 | 1308 | 981 | 785 |
| 11175 | 1967 | 1311 | 983 | 787 |
| 11200 | 1971 | 1314 | 986 | 788 |
| 11225 | 1976 | 1317 | 988 | 790 |
| 11250 | 1980 | 1320 | 990 | 792 |
| 11275 | 1984 | 1323 | 992 | 794 |
| 11300 | 1989 | 1326 | 994 | 796 |
| 11325 | 1993 | 1329 | 997 | 797 |
| 11350 | 1998 | 1332 | 999 | 799 |
| 11375 | 2002 | 1335 | 1001 | 801 |
| 11400 | 2006 | 1338 | 1003 | 803 |
| 11425 | 2011 | 1341 | 1005 | 804 |
| 11450 | 2015 | 1343 | 1008 | 806 |
| 11475 | 2020 | 1346 | 1010 | 808 |
| 11500 | 2024 | 1349 | 1012 | 810 |
| 11525 | 2028 | 1352 | 1014 | 811 |
| 11550 | 2033 | 1355 | 1016 | 813 |
| 11575 | 2037 | 1358 | 1019 | 815 |
| 11600 | 2042 | 1361 | 1021 | 817 |
| 11625 | 2046 | 1364 | 1023 | 818 |
| 11650 | 2050 | 1367 | 1025 | 820 |
| 11675 | 2055 | 1370 | 1027 | 822 |
| 11700 | 2059 | 1373 | 1030 | 824 |
| 11725 | 2064 | 1376 | 1032 | 825 |
| 11750 | 2068 | 1379 | 1034 | 827 |
| 11775 | 2072 | 1382 | 1036 | 829 |
| 11800 | 2077 | 1385 | 1038 | 831 |
| 11825 | 2081 | 1387 | 1041 | 832 |
| 11850 | 2086 | 1390 | 1043 | 834 |
| 11875 | 2090 | 1393 | 1045 | 836 |
| 11900 | 2094 | 1396 | 1047 | 838 |
| 11925 | 2099 | 1399 | 1049 | 840 |
| 11950 | 2103 | 1402 | 1052 | 841 |
| 11975 | 2108 | 1405 | 1054 | 843 |
| 12000 | 2112 | 1408 | 1056 | 845 |
| 12025 | 2116 | 1411 | 1058 | 847 |
| 12050 | 2121 | 1414 | 1060 | 848 |
| 12075 | 2125 | 1417 | 1063 | 850 |

| | | | | |
|-------|------|------|------|-----|
| 12100 | 2130 | 1420 | 1065 | 852 |
| 12125 | 2134 | 1423 | 1067 | 854 |
| 12150 | 2138 | 1426 | 1069 | 855 |
| 12175 | 2143 | 1429 | 1071 | 857 |
| 12200 | 2147 | 1431 | 1074 | 859 |
| 12225 | 2152 | 1434 | 1076 | 861 |
| 12250 | 2156 | 1437 | 1078 | 862 |
| 12275 | 2160 | 1440 | 1080 | 864 |
| 12300 | 2165 | 1443 | 1082 | 866 |
| 12325 | 2169 | 1446 | 1085 | 868 |
| 12350 | 2174 | 1449 | 1087 | 869 |
| 12375 | 2178 | 1452 | 1089 | 871 |
| 12400 | 2182 | 1455 | 1091 | 873 |
| 12425 | 2187 | 1458 | 1093 | 875 |
| 12450 | 2191 | 1461 | 1096 | 876 |
| 12475 | 2196 | 1464 | 1098 | 878 |
| 12500 | 2200 | 1467 | 1100 | 880 |

Notes:

#1. When the above data disagrees with actual manufacturer data, always default to actual manufacturer data.

#2. These values are for educational purposes only.

Due to the wide range of circuit applications, the author assumes no responsibility for the application of these values.

Select here for Tom's [HOME](#) page

[BACK](#)