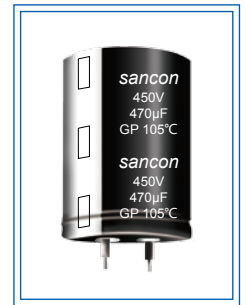


GP (CD294)

Features

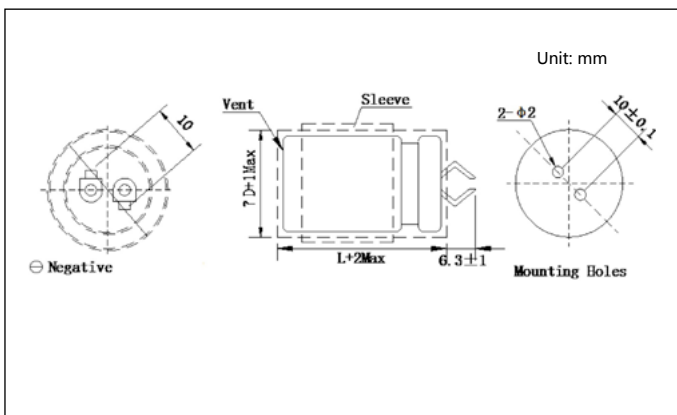
- Standard, load life of 2000 hours at 105°C.



Specifications

| Item | Performance Characteristics | | | | | | | |
|---|---|--------|------|---------|------------|---------|---------|---------|
| Operating Temperature Range | -40~+105°C | | | | -25~+105°C | | | |
| Rated Voltage Range | 16~100V | | | | 160~500V | | | |
| Nominal Capacitance Range | 39~47000µF | | | | | | | |
| Capacitance Tolerance | ±20%(120Hz,+20°C) | | | | | | | |
| Leakage Current | I ≤ 0.01CV or 1.5mA (at 20°C , after 5 minutes , Whichever is smaller) | | | | | | | |
| Dissipation Factor (tgδ,+20°C ,120Hz) | U _R (V) | 16 | 25 | 35 | 50 | 63~100 | 160~400 | 450~500 |
| | tgδ | 0.50 | 0.40 | 0.35 | 0.30 | 0.20 | 0.15 | 0.20 |
| Temperature Characteristics (Impedance ratio at 120Hz) | U _R (V) | 16~100 | | 160~200 | | 250~500 | | |
| | Z-25°C /+20°C | 4 | | 4 | | 4 | | |
| | Z-40°C /+20°C | 15 | | - | | - | | |
| Load Life | After applying rated voltage with specified ripple current for 2000 hours at +105°C and then resumed 24 hours: Capacitance change : ±20% of the initial measured value Leakage current : ≤ the initial specified value Dissipation factor: ≤ 200% of the initial specified value | | | | | | | |
| Shelf Life | After storage for 1000 hours at +105°C ,U _R to be applied for 30 minutes and then resumed 24 hours: Capacitance change : ±15% of the initial measured value Leakage current : ≤ the initial specified value Dissipation factor: ≤ 200% of the initial specified value | | | | | | | |

Diagram of Dimensions



Multiplier for Ripple Current

Frequency coefficient

| U(V) \ Frequency (Hz) | 50 | 120 | 1K | 10K | ≥ 20K |
|-----------------------|------|------|------|------|-------|
| ≤ 100 | 0.95 | 1.00 | 1.10 | 1.15 | 1.15 |
| 160~250 | 0.87 | 1.00 | 1.11 | 1.18 | 1.20 |
| ≥ 350 | 0.80 | 1.00 | 1.14 | 1.14 | 1.20 |

Temperature coefficient

| Temperature (°C) | +40 | +55 | +70 | +85 | +105 |
|--------------------|-----|-----|-----|-----|------|
| Coefficient | 2.7 | 2.5 | 2.1 | 1.7 | 1.0 |

Standard Size

| Rated Voltage (V _{dc}) | Surge Voltage (V _{dc}) | Rated Capacitance (μF) | Max ESR 20°C 120Hz (mΩ) | Type ESR 20°C 120HZ (mΩ) | Rated ripple current 105°C 120Hz (Arms) | Size ΦD×L (mm) |
|----------------------------------|----------------------------------|------------------------|-------------------------|--------------------------|---|----------------|
| 16 1C | 20 | 6800 | 98 | 68 | 1.6 | 22×25 |
| | | 10000 | 66 | 46 | 1.99 | 22×30 |
| | | | 66 | 46 | 1.99 | 25×25 |
| | | 12000 | 55 | 39 | 2.28 | 22×35 |
| | | | 55 | 39 | 2.3 | 25×30 |
| | | | 55 | 39 | 2.38 | 30×25 |
| | | 15000 | 44 | 31 | 2.64 | 22×40 |
| | | | 44 | 31 | 2.68 | 25×35 |
| | | 18000 | 37 | 26 | 2.98 | 22×45 |
| | | | 37 | 26 | 3.04 | 25×40 |
| | | | 37 | 26 | 3 | 30×30 |
| | | | 37 | 26 | 3.1 | 35×25 |
| | | 22000 | 30 | 21 | 3.4 | 25×45 |
| | | | 30 | 21 | 3.39 | 30×35 |
| | | 27000 | 25 | 17 | 3.81 | 25×50 |
| | | | 25 | 17 | 3.83 | 30×40 |
| 25 | 17 | | 3.74 | 35×30 | | |
| 33000 | 20 | 14 | 4.3 | 30×45 | | |
| | 20 | 14 | 4.24 | 35×35 | | |
| 39000 | 17 | 12 | 4.74 | 30×50 | | |
| | 17 | 12 | 4.72 | 35×40 | | |
| 47000 | 14 | 10 | 5.27 | 35×45 | | |
| 25 1E | 32 | 4700 | 113 | 79 | 1.55 | 22×25 |
| | | 6800 | 78 | 55 | 1.91 | 22×30 |
| | | | 78 | 55 | 1.91 | 25×25 |
| | | 8200 | 65 | 45 | 2.14 | 22×35 |
| | | | 65 | 45 | 2.16 | 25×30 |
| | | | 65 | 45 | 2.25 | 30×25 |
| | | 10000 | 53 | 37 | 2.4 | 22×40 |
| | | | 53 | 37 | 2.44 | 25×35 |
| | | 12000 | 44 | 31 | 2.69 | 22×45 |
| | | | 44 | 31 | 2.74 | 25×40 |
| | | | 44 | 31 | 2.7 | 30×30 |
| | | | 44 | 31 | 2.8 | 35×25 |
| | | 15000 | 35 | 25 | 3.15 | 25×45 |
| | | | 35 | 25 | 3.13 | 30×35 |
| | | | 35 | 25 | 3.22 | 35×30 |
| | | 18000 | 30 | 21 | 3.54 | 25×50 |
| 30 | 21 | | 3.54 | 30×40 | | |
| 22000 | 24 | 17 | 4.24 | 30×45 | | |
| | 24 | 17 | 3.96 | 35×35 | | |
| 27000 | 20 | 14 | 4.75 | 35×45 | | |
| 33000 | 16 | 11 | 5.39 | 35×50 | | |
| 35 1V | 44 | 3300 | 141 | 99 | 1.43 | 22×25 |
| | | 3900 | 119 | 83 | 1.65 | 22×30 |
| | | 4700 | 99 | 69 | 1.78 | 25×25 |
| | | 5600 | 83 | 58 | 2.02 | 22×35 |
| | | | 83 | 58 | 2.04 | 25×30 |
| | | | 83 | 58 | 2.12 | 30×25 |
| | | 6800 | 68 | 48 | 2.28 | 22×40 |
| | | | 68 | 48 | 2.31 | 25×35 |

Standard Size

| Rated Voltage (V _{dc}) | Surge Voltage (V _{dc}) | Rated Capacitance (μF) | Max ESR 20°C 120Hz (mΩ) | Type ESR 20°C 120Hz (mΩ) | Rated ripple current 105°C 120Hz (Arms) | Size ΦD×L (mm) |
|----------------------------------|----------------------------------|------------------------|-------------------------|--------------------------|---|----------------|
| 35 1V | 44 | 8200 | 57 | 40 | 2.67 | 22×50 |
| | | | 57 | 40 | 2.6 | 25×40 |
| | | | 57 | 40 | 2.56 | 30×30 |
| | | | 57 | 40 | 2.78 | 35×25 |
| | | 10000 | 46 | 33 | 2.92 | 25×45 |
| | | | 46 | 33 | 2.92 | 30×35 |
| | | 12000 | 39 | 27 | 3.26 | 25×50 |
| | | | 39 | 27 | 3.28 | 30×40 |
| | | | 39 | 27 | 3.2 | 35×30 |
| | | 15000 | 31 | 22 | 3.74 | 30×45 |
| | | | 31 | 22 | 3.69 | 35×35 |
| | | 18000 | 26 | 18 | 4.16 | 35×40 |
| | | 22000 | 21 | 15 | 4.92 | 35×50 |
| | | 50 1H | 63 | 1800 | 221 | 155 |
| 2200 | 181 | | | 127 | 1.45 | 22×30 |
| 2700 | 147 | | | 103 | 1.7 | 22×30 |
| | 147 | | | 103 | 1.7 | 25×25 |
| 3300 | 121 | | | 84 | 1.98 | 22×35 |
| | 121 | | | 84 | 2 | 25×30 |
| 3900 | 102 | | | 72 | 2.25 | 22×40 |
| | 102 | | | 72 | 2.28 | 25×35 |
| | 102 | | | 72 | 2.22 | 30×25 |
| 4700 | 85 | | | 59 | 2.56 | 22×45 |
| | 85 | | | 59 | 2.58 | 30×30 |
| | 85 | | | 59 | 2.67 | 35×25 |
| 5600 | 71 | | | 50 | 2.89 | 22×50 |
| | 71 | | | 50 | 2.81 | 25×40 |
| | 71 | | | 50 | 2.95 | 30×35 |
| 6800 | 59 | | | 41 | 3.37 | 25×50 |
| | 59 | | | 41 | 3.39 | 30×40 |
| | 59 | | | 41 | 3.31 | 35×30 |
| 8200 | 49 | | | 34 | 3.71 | 30×45 |
| | 49 | | | 34 | 3.66 | 35×35 |
| 10000 | 40 | | | 28 | 4.09 | 30×50 |
| | 40 | 28 | 4.07 | 35×40 | | |
| 12000 | 33 | 23 | 4.5 | 35×45 | | |
| 63 1J | 79 | 1200 | 221 | 155 | 1.25 | 22×25 |
| | | 1800 | 147 | 103 | 1.52 | 22×30 |
| | | 2200 | 147 | 103 | 1.52 | 25×25 |
| | | | 121 | 84 | 1.73 | 22×35 |
| | | 2700 | 121 | 84 | 1.75 | 25×30 |
| | | | 98 | 69 | 1.97 | 22×40 |
| | | | 98 | 69 | 1.99 | 25×35 |
| | | 3300 | 98 | 69 | 1.93 | 30×25 |
| | | | 80 | 56 | 2.32 | 22×50 |
| | | | 80 | 56 | 2.27 | 25×40 |
| | | | 80 | 56 | 2.24 | 30×30 |
| | | 3900 | 80 | 56 | 2.41 | 35×25 |
| | | | 68 | 48 | 2.54 | 25×45 |
| | | 4700 | 68 | 48 | 2.55 | 30×35 |
| | | | 57 | 40 | 2.88 | 25×50 |
| | | | 57 | 40 | 2.9 | 30×40 |
| | | 5600 | 57 | 40 | 2.83 | 35×30 |
| | | | 47 | 33 | 3.28 | 30×45 |
| | | 6800 | 47 | 33 | 3.24 | 35×35 |
| | | | 39 | 27 | 3.73 | 30×50 |
| | | 8200 | 39 | 27 | 3.71 | 35×40 |
| 32 | 23 | | 4.16 | 35×45 | | |
| 10000 | 27 | 19 | 4.69 | 35×50 | | |

Standard Size

| Rated Voltage (V _{dc}) | Surge Voltage (V _{dc}) | Rated Capacitance (μF) | Max ESR 20°C 120Hz (mΩ) | Type ESR 20°C 120Hz (mΩ) | Rated ripple current 105°C 120Hz (Arms) | Size ΦD×L (mm) |
|----------------------------------|----------------------------------|------------------------|-------------------------|--------------------------|---|----------------|
| 80 1K | 100 | 820 | 324 | 227 | 1.11 | 22×25 |
| | | 1000 | 266 | 186 | 1.25 | 22×25 |
| | | 1200 | 221 | 155 | 1.39 | 22×30 |
| | | | 221 | 155 | 1.39 | 25×25 |
| | | 1500 | 177 | 124 | 1.61 | 22×35 |
| | | | 177 | 124 | 1.62 | 25×30 |
| | | 1800 | 147 | 103 | 1.83 | 22×40 |
| | | | 147 | 103 | 1.81 | 30×25 |
| | | 2200 | 121 | 84 | 2.09 | 22×45 |
| | | | 121 | 84 | 2.01 | 25×35 |
| | | | 121 | 84 | 2.1 | 30×30 |
| | | | 121 | 84 | 2.17 | 35×25 |
| | | 2700 | 98 | 69 | 2.43 | 25×45 |
| | | | 98 | 69 | 2.43 | 30×35 |
| | | 3300 | 80 | 56 | 2.76 | 25×50 |
| | | | 80 | 56 | 2.78 | 30×40 |
| | | | 80 | 56 | 2.71 | 35×30 |
| | | 3900 | 68 | 48 | 3.12 | 30×45 |
| 68 | 48 | | 3.07 | 35×35 | | |
| 4700 | 57 | 40 | 3.56 | 30×50 | | |
| | 57 | 40 | 3.5 | 35×40 | | |
| 5600 | 47 | 33 | 3.87 | 35×45 | | |
| 6800 | 39 | 27 | 4.19 | 35×50 | | |
| 100 2A | 125 | 560 | 474 | 332 | 1.07 | 22×25 |
| | | 820 | 324 | 227 | 1.35 | 22×30 |
| | | | 324 | 227 | 1.35 | 25×25 |
| | | 1000 | 265 | 186 | 1.54 | 22×35 |
| | | | 265 | 186 | 1.56 | 25×30 |
| | | 1200 | 221 | 155 | 1.74 | 22×40 |
| | | | 221 | 155 | 1.76 | 25×35 |
| | | | 221 | 155 | 1.71 | 30×25 |
| | | 1500 | 177 | 124 | 1.99 | 22×45 |
| | | | 177 | 124 | 2.03 | 25×40 |
| | | | 177 | 124 | 2 | 30×30 |
| | | | 177 | 124 | 2.07 | 35×25 |
| | | 1800 | 147 | 103 | 2.28 | 25×45 |
| | | | 147 | 103 | 2.27 | 30×35 |
| | | 2200 | 121 | 84 | 2.57 | 25×50 |
| | | | 121 | 84 | 2.59 | 30×40 |
| | | | 121 | 84 | 2.52 | 35×30 |
| | | 2700 | 98 | 69 | 2.94 | 30×45 |
| 98 | 69 | | 2.9 | 35×35 | | |
| 3300 | 80 | 56 | 3.32 | 30×50 | | |
| | 80 | 56 | 3.31 | 35×40 | | |
| 3900 | 68 | 48 | 3.69 | 35×45 | | |
| 4700 | 57 | 40 | 4.14 | 35×50 | | |
| 160 2C | 200 | 330 | 603 | 442 | 1.16 | 22×25 |
| | | 390 | 510 | 357 | 1.43 | 22×30 |
| | | 470 | 424 | 296 | 1.52 | 22×35 |
| | | | 424 | 296 | 1.55 | 25×25 |
| | | 560 | 355 | 249 | 1.62 | 22×40 |
| | | | 355 | 249 | 1.73 | 25×30 |
| | | 680 | 293 | 205 | 1.7 | 22×45 |
| | | | 293 | 205 | 1.81 | 25×35 |
| | | | 293 | 205 | 1.82 | 30×25 |
| | | 820 | 243 | 170 | 1.81 | 22×50 |
| | | | 243 | 170 | 1.98 | 25×40 |
| | | | 243 | 170 | 1.98 | 30×30 |
| 243 | 170 | | 1.93 | 35×25 | | |
| 1000 | 199 | 139 | 2.04 | 25×45 | | |

Standard Size

| Rated Voltage (V _{dc}) | Surge Voltage (V _{dc}) | Rated Capacitance (μF) | Max ESR 20°C 120Hz (mΩ) | Type ESR 20°C 120HZ (mΩ) | Rated ripple current 105°C 120Hz (Arms) | Size ΦD×L (mm) |
|----------------------------------|----------------------------------|------------------------|-------------------------|--------------------------|---|----------------|
| 160 2C | 200 | 1000 | 199 | 139 | 2.14 | 30×35 |
| | | 1200 | 166 | 116 | 2.12 | 25×50 |
| | | | 166 | 116 | 2.22 | 30×40 |
| | | | 166 | 116 | 2.4 | 35×30 |
| | | 1500 | 133 | 93 | 2.46 | 30×45 |
| | | | 133 | 93 | 2.53 | 35×35 |
| 1800 | 111 | 77 | 2.98 | 35×45 | | |
| 2200 | 91 | 63 | 3.1 | 35×50 | | |
| 180 2K | 225 | 270 | 737 | 516 | 1.08 | 22×25 |
| | | 330 | 603 | 422 | 1.3 | 22×30 |
| | | 390 | 510 | 357 | 1.35 | 25×25 |
| | | 470 | 424 | 296 | 1.5 | 22×35 |
| | | | 424 | 296 | 1.62 | 25×30 |
| | | 560 | 355 | 249 | 1.62 | 22×40 |
| | | | 355 | 249 | 1.69 | 25×35 |
| | | | 355 | 249 | 1.67 | 30×25 |
| | | 680 | 293 | 205 | 1.76 | 22×50 |
| | | | 293 | 205 | 1.72 | 25×40 |
| | | | 293 | 205 | 1.74 | 30×30 |
| | | | 293 | 205 | 1.92 | 35×25 |
| | | 820 | 243 | 170 | 1.78 | 25×45 |
| | | | 243 | 170 | 1.85 | 30×35 |
| | | 1000 | 199 | 139 | 1.91 | 25×50 |
| | | | 199 | 139 | 2.01 | 30×40 |
| | | | 199 | 139 | 2.16 | 35×30 |
| | | 1200 | 166 | 116 | 2.19 | 30×45 |
| | | | 166 | 116 | 2.34 | 35×35 |
| | | 1500 | 133 | 93 | 2.36 | 30×50 |
| 133 | 93 | | 2.56 | 35×40 | | |
| 1800 | 111 | 77 | 2.67 | 35×45 | | |
| 200 2D | 250 | 220 | 905 | 633 | 1.08 | 22×25 |
| | | 270 | 737 | 516 | 1.20 | 22×30 |
| | | 330 | 603 | 422 | 1.3 | 22×30 |
| | | | 603 | 422 | 1.35 | 25×25 |
| | | 390 | 510 | 357 | 1.41 | 22×35 |
| | | 470 | 424 | 296 | 1.5 | 22×40 |
| | | | 424 | 296 | 1.47 | 25×30 |
| | | | 424 | 296 | 1.56 | 30×25 |
| | | 560 | 355 | 249 | 1.58 | 22×45 |
| | | | 355 | 249 | 1.65 | 25×35 |
| | | 680 | 293 | 205 | 1.68 | 22×50 |
| | | | 293 | 205 | 1.8 | 25×40 |
| | | | 293 | 205 | 1.82 | 30×30 |
| | | | 293 | 205 | 1.96 | 35×25 |
| | | 820 | 243 | 170 | 1.87 | 25×50 |
| | | | 243 | 170 | 1.99 | 30×35 |
| | | | 243 | 170 | 2.07 | 35×30 |
| | | 1000 | 199 | 139 | 2.17 | 30×45 |
| | | | 199 | 139 | 2.22 | 35×35 |
| | | 1200 | 166 | 116 | 2.22 | 30×50 |
| 166 | 116 | | 2.42 | 35×40 | | |
| 1500 | 133 | 93 | 2.59 | 35×45 | | |
| 1800 | 111 | 77 | 2.7 | 35×50 | | |

Standard Size

| Rated Voltage (V _{dc}) | Surge Voltage (V _{dc}) | Rated Capacitance (μF) | Max ESR 20°C 120Hz (mΩ) | Type ESR 20°C 120Hz (mΩ) | Rated ripple current 105°C 120Hz (Arms) | Size ΦD×L (mm) |
|----------------------------------|----------------------------------|------------------------|-------------------------|--------------------------|---|----------------|
| 250 2E | 300 | 180 | 1106 | 774 | 0.94 | 22×25 |
| | | 220 | 905 | 633 | 1.1 | 22×30 |
| | | | 905 | 633 | 1.15 | 25×25 |
| | | 270 | 737 | 516 | 1.13 | 22×35 |
| | | 330 | 603 | 422 | 1.2 | 22×40 |
| | | | 603 | 422 | 1.3 | 25×30 |
| | | | 603 | 422 | 1.3 | 30×25 |
| | | 390 | 510 | 357 | 1.26 | 22×45 |
| | | | 510 | 357 | 1.41 | 25×35 |
| | | 470 | 424 | 296 | 1.37 | 22×50 |
| | | | 424 | 296 | 1.52 | 25×40 |
| | | | 424 | 296 | 1.36 | 30×30 |
| | | | 424 | 296 | 1.4 | 35×25 |
| | | 560 | 355 | 249 | 1.59 | 25×45 |
| | | | 355 | 249 | 1.57 | 30×35 |
| | | | 355 | 249 | 1.56 | 35×30 |
| | | 680 | 293 | 205 | 1.66 | 25×50 |
| | | | 293 | 205 | 1.76 | 30×40 |
| 820 | 243 | 170 | 1.83 | 30×45 | | |
| | 243 | 170 | 1.82 | 35×35 | | |
| 1000 | 199 | 139 | 1.87 | 30×50 | | |
| | 199 | 139 | 1.99 | 35×40 | | |
| 1200 | 166 | 116 | 2.1 | 35×45 | | |
| 350 2V | 400 | 68 | 2927 | 1610 | 0.56 | 22×25 |
| | | 100 | 1990 | 1095 | 0.7 | 22×30 |
| | | | 1990 | 1095 | 0.7 | 25×25 |
| | | 120 | 1659 | 912 | 0.73 | 22×35 |
| | | 150 | 1327 | 730 | 0.79 | 22×40 |
| | | | 1327 | 730 | 0.82 | 25×30 |
| | | | 1327 | 730 | 0.82 | 30×25 |
| | | 180 | 1106 | 608 | 0.81 | 22×45 |
| | | | 1106 | 608 | 0.89 | 25×35 |
| | | | 1106 | 608 | 0.9 | 30×30 |
| | | 220 | 905 | 498 | 0.93 | 22×50 |
| | | | 905 | 498 | 0.97 | 25×40 |
| | | | 905 | 498 | 0.98 | 35×25 |
| | | 270 | 737 | 406 | 1.01 | 25×50 |
| | | | 737 | 406 | 1.05 | 30×35 |
| | | | 737 | 406 | 1.01 | 35×30 |
| | | 330 | 603 | 332 | 1.16 | 30×45 |
| | | | 603 | 332 | 1.16 | 35×35 |
| 390 | 510 | 281 | 1.26 | 30×50 | | |
| | 510 | 281 | 1.26 | 35×40 | | |
| 470 | 424 | 233 | 1.35 | 35×45 | | |
| 560 | 355 | 196 | 1.51 | 35×50 | | |
| 400 2G | 450 | 68 | 2927 | 1522 | 0.47 | 22×25 |
| | | 82 | 2427 | 1262 | 0.56 | 22×30 |
| | | | 2427 | 1262 | 0.65 | 25×25 |
| | | 100 | 1990 | 1035 | 0.60 | 22×30 |
| | | 120 | 1659 | 863 | 0.64 | 22×35 |
| | | | 1659 | 863 | 0.7 | 25×30 |
| | | | 1659 | 863 | 0.78 | 30×25 |
| | | 150 | 1327 | 690 | 0.7 | 22×40 |
| | | | 1327 | 690 | 0.73 | 25×35 |
| | | 180 | 1106 | 575 | 0.78 | 22×50 |
| | | | 1106 | 575 | 0.82 | 25×40 |
| | | | 1106 | 575 | 0.83 | 30×30 |
| | | | 1106 | 575 | 0.86 | 35×25 |
| | | 220 | 905 | 471 | 0.87 | 25×45 |
| | | | 905 | 471 | 0.96 | 30×35 |
| | | 270 | 737 | 383 | 0.94 | 25×50 |

Standard Size

| Rated Voltage (V _{dc}) | Surge Voltage (V _{dc}) | Rated Capacitance (μF) | Max ESR 20°C 120Hz (mΩ) | Type ESR 20°C 120Hz (mΩ) | Rated ripple current 105°C 120Hz (Arms) | Size ΦD×L (mm) |
|----------------------------------|----------------------------------|------------------------|-------------------------|--------------------------|---|----------------|
| 400 2G | 450 | 270 | 737 | 383 | 0.95 | 30×40 |
| | | | 737 | 383 | 0.91 | 35×30 |
| | | 330 | 603 | 314 | 1.11 | 30×45 |
| | | | 603 | 314 | 1.13 | 35×35 |
| | | 390 | 510 | 265 | 1.15 | 30×50 |
| | | | 510 | 265 | 1.26 | 35×40 |
| 470 | 424 | 220 | 1.31 | 35×45 | | |
| 560 | 355 | 185 | 1.5 | 35×50 | | |
| 450 2W | 500 | 56 | 4739 | 2370 | 0.47 | 22×25 |
| | | 68 | 3903 | 1951 | 0.56 | 22×30 |
| | | | 3903 | 1951 | 0.65 | 25×25 |
| | | 82 | 3237 | 1618 | 0.64 | 22×35 |
| | | 100 | 2654 | 1327 | 0.7 | 22×40 |
| | | | 2654 | 1327 | 0.7 | 25×30 |
| | | | 2654 | 1327 | 0.78 | 30×25 |
| | | 120 | 2212 | 1106 | 0.73 | 22×45 |
| | | | 2212 | 1106 | 0.73 | 25×35 |
| | | 150 | 1769 | 885 | 0.78 | 22×50 |
| | | | 1769 | 885 | 0.82 | 25×40 |
| | | | 1769 | 885 | 0.83 | 30×30 |
| | | | 1769 | 885 | 0.86 | 35×25 |
| | | 180 | 1474 | 737 | 0.87 | 25×45 |
| | | | 1474 | 737 | 0.86 | 30×35 |
| | | 220 | 1206 | 603 | 0.94 | 25×50 |
| | | | 1206 | 603 | 0.95 | 30×40 |
| | | | 1206 | 603 | 0.91 | 35×30 |
| | | 270 | 983 | 492 | 1.11 | 30×45 |
| | | | 983 | 492 | 1.13 | 35×35 |
| 330 | 804 | 402 | 1.15 | 30×50 | | |
| | 804 | 402 | 1.26 | 35×40 | | |
| 390 | 681 | 340 | 1.31 | 35×45 | | |
| 470 | 565 | 282 | 1.5 | 35×50 | | |
| 500 2H | 550 | 39 | 6805 | 3403 | 0.35 | 22×30 |
| | | 47 | 5647 | 2823 | 0.41 | 22×35 |
| | | 56 | 4739 | 2370 | 0.47 | 22×40 |
| | | 68 | 3903 | 1951 | 0.54 | 22×45 |
| | | 82 | 3237 | 1618 | 0.62 | 25×40 |
| | | 100 | 2654 | 1327 | 0.67 | 25×45 |
| | | | 2212 | 1106 | 0.77 | 25×50 |
| | | 120 | 2212 | 1106 | 0.72 | 35×30 |
| | | | 1769 | 885 | 0.85 | 30×40 |
| | | 180 | 1474 | 737 | 1.01 | 30×50 |
| | | 220 | 1206 | 603 | 1.21 | 35×45 |
| | | 270 | 983 | 492 | 1.29 | 35×50 |