

YXG SERIES

105°C Low Impedance

•Load Life : 105°C 3000~6000 hours.

RoHS  
compliance



◆SPECIFICATIONS

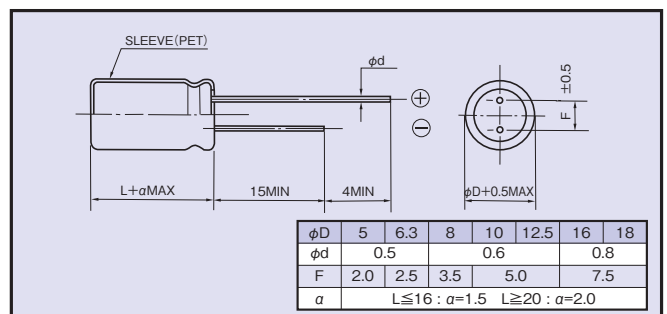
| Items                                             | Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                 |        |                |      |      |       |      |         |      |      |      |                |   |   |   |   |   |   |   |   |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|--|------------------------|-----------------------------------|--------------------|--------------------------------------------|-----------------|------------------------------------|-----------|-----------------|--------|----------------|------|------|-------|------|---------|------|------|------|----------------|---|---|---|---|---|---|---|---|
| Category Temperature Range                        | -40~+105℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                 |        |                |      |      |       |      |         |      |      |      |                |   |   |   |   |   |   |   |   |
| Rated Voltage Range                               | 6.3~100Vdc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                 |        |                |      |      |       |      |         |      |      |      |                |   |   |   |   |   |   |   |   |
| Capacitance Tolerance                             | ±20% (20℃,120Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                 |        |                |      |      |       |      |         |      |      |      |                |   |   |   |   |   |   |   |   |
| Leakage Current(MAX)                              | I=0.01CV or 3μA whichever is greater.(After 2 minutes)<br>I=Leakage Current(μA)                      C=Capacitance(μF)                      V=Rated Voltage(Vdc)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                 |        |                |      |      |       |      |         |      |      |      |                |   |   |   |   |   |   |   |   |
| Dissipation Factor(MAX)<br>(tanδ)                 | <table border="1"><tr><td>Rated Voltage<br/>(Vdc)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td>tanδ</td><td>0.22</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.09</td><td>0.08</td></tr></table> (20℃,120Hz)<br><br>When capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.                                                                                                                                                                                                                                 |      |      |      |      |      |      |      |  | Rated Voltage<br>(Vdc) | 6.3                               | 10                 | 16                                         | 25              | 35                                 | 50        | 63              | 100    | tanδ           | 0.22 | 0.19 | 0.16  | 0.14 | 0.12    | 0.10 | 0.09 | 0.08 |                |   |   |   |   |   |   |   |   |
| Rated Voltage<br>(Vdc)                            | 6.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10   | 16   | 25   | 35   | 50   | 63   | 100  |  |                        |                                   |                    |                                            |                 |                                    |           |                 |        |                |      |      |       |      |         |      |      |      |                |   |   |   |   |   |   |   |   |
| tanδ                                              | 0.22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 |  |                        |                                   |                    |                                            |                 |                                    |           |                 |        |                |      |      |       |      |         |      |      |      |                |   |   |   |   |   |   |   |   |
| Endurance                                         | <p>After applying rated voltage with rated ripple current for specified time at 105℃, the capacitors shall meet the following requirements.</p> <table border="1"><tr><td>Capacitance Change</td><td>Within ±25% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td>Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td>Not more than the specified value.</td></tr></table> <table border="1"><tr><td>Case Size</td><td>Life Time (hrs)</td></tr><tr><td>φD≤6.3</td><td>3000</td></tr><tr><td>φD=8</td><td>4000</td></tr><tr><td>φD=10</td><td>5000</td></tr><tr><td>φD≥12.5</td><td>6000</td></tr></table> |      |      |      |      |      |      |      |  | Capacitance Change     | Within ±25% of the initial value. | Dissipation Factor | Not more than 200% of the specified value. | Leakage Current | Not more than the specified value. | Case Size | Life Time (hrs) | φD≤6.3 | 3000           | φD=8 | 4000 | φD=10 | 5000 | φD≥12.5 | 6000 |      |      |                |   |   |   |   |   |   |   |   |
| Capacitance Change                                | Within ±25% of the initial value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                 |        |                |      |      |       |      |         |      |      |      |                |   |   |   |   |   |   |   |   |
| Dissipation Factor                                | Not more than 200% of the specified value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                 |        |                |      |      |       |      |         |      |      |      |                |   |   |   |   |   |   |   |   |
| Leakage Current                                   | Not more than the specified value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                 |        |                |      |      |       |      |         |      |      |      |                |   |   |   |   |   |   |   |   |
| Case Size                                         | Life Time (hrs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                 |        |                |      |      |       |      |         |      |      |      |                |   |   |   |   |   |   |   |   |
| φD≤6.3                                            | 3000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                 |        |                |      |      |       |      |         |      |      |      |                |   |   |   |   |   |   |   |   |
| φD=8                                              | 4000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                 |        |                |      |      |       |      |         |      |      |      |                |   |   |   |   |   |   |   |   |
| φD=10                                             | 5000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                 |        |                |      |      |       |      |         |      |      |      |                |   |   |   |   |   |   |   |   |
| φD≥12.5                                           | 6000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                 |        |                |      |      |       |      |         |      |      |      |                |   |   |   |   |   |   |   |   |
| Low Temperature Stability<br>Impedance Ratio(MAX) | <table border="1"><tr><td>Rated Voltage<br/>(Vdc)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40℃)/Z(20℃)</td><td>8</td><td>6</td><td>4</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr></table> (120Hz)                                                                                                                                                                                                                                                       |      |      |      |      |      |      |      |  | Rated Voltage<br>(Vdc) | 6.3                               | 10                 | 16                                         | 25              | 35                                 | 50        | 63              | 100    | Z(-25℃)/Z(20℃) | 4    | 3    | 2     | 2    | 2       | 2    | 2    | 2    | Z(-40℃)/Z(20℃) | 8 | 6 | 4 | 3 | 3 | 3 | 3 | 3 |
| Rated Voltage<br>(Vdc)                            | 6.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10   | 16   | 25   | 35   | 50   | 63   | 100  |  |                        |                                   |                    |                                            |                 |                                    |           |                 |        |                |      |      |       |      |         |      |      |      |                |   |   |   |   |   |   |   |   |
| Z(-25℃)/Z(20℃)                                    | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3    | 2    | 2    | 2    | 2    | 2    | 2    |  |                        |                                   |                    |                                            |                 |                                    |           |                 |        |                |      |      |       |      |         |      |      |      |                |   |   |   |   |   |   |   |   |
| Z(-40℃)/Z(20℃)                                    | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6    | 4    | 3    | 3    | 3    | 3    | 3    |  |                        |                                   |                    |                                            |                 |                                    |           |                 |        |                |      |      |       |      |         |      |      |      |                |   |   |   |   |   |   |   |   |

◆MULTIPLIER FOR RIPPLE CURRENT

| Frequency (Hz) | 120  | 1k   | 10k  | 100k≤ |
|----------------|------|------|------|-------|
| 6.8~33µF       | 0.42 | 0.70 | 0.90 | 1.00  |
| 39~270µF       | 0.50 | 0.73 | 0.92 | 1.00  |
| 330~680µF      | 0.55 | 0.77 | 0.94 | 1.00  |
| 820~1800µF     | 0.60 | 0.80 | 0.96 | 1.00  |
| 2200~18000µF   | 0.70 | 0.85 | 0.98 | 1.00  |

◆DIMENSIONS

(mm)



◆PART NUMBER

□□□ YXG □□□□□ M □□□ □□ D×L  
 Rated Voltage Series Capacitance Capacitance Tolerance Option Lead Forming Case Size

◆OPTION

|            | Code |
|------------|------|
| PET Sleeve | EFC  |

**◆STANDARD SIZE**

| Rated Voltage<br>(Vdc) | Capacitance<br>(μF) | Size<br>φD×L(mm) | Rated ripple current<br>(mA r.m.s./105°C, 100kHz) | Impedance<br>(Ω MAX) |               |
|------------------------|---------------------|------------------|---------------------------------------------------|----------------------|---------------|
|                        |                     |                  |                                                   | 20°C, 100kHz         | -10°C, 100kHz |
| 6.3                    | 150                 | 5×11             | 210                                               | 0.58                 | 2.3           |
|                        | 330                 | 6.3×11           | 340                                               | 0.22                 | 0.87          |
|                        | 680                 | 8×11.5           | 640                                               | 0.13                 | 0.52          |
|                        | 820                 | 10×12.5          | 865                                               | 0.080                | 0.32          |
|                        | 1000                | 8×16             | 840                                               | 0.087                | 0.35          |
|                        | 1200                | 8×20             | 1050                                              | 0.069                | 0.27          |
|                        | 1200                | 10×16            | 1210                                              | 0.060                | 0.24          |
|                        | 1500                | 10×20            | 1400                                              | 0.046                | 0.18          |
|                        | 1800                | 12.5×16          | 1450                                              | 0.049                | 0.16          |
|                        | 2200                | 10×23            | 1650                                              | 0.042                | 0.17          |
|                        | 2700                | 10×28            | 1910                                              | 0.031                | 0.12          |
|                        | 2700                | 16×16            | 1940                                              | 0.042                | 0.12          |
|                        | 3300                | 12.5×20          | 1900                                              | 0.035                | 0.12          |
|                        | 3900                | 12.5×25          | 2230                                              | 0.027                | 0.089         |
|                        | 3900                | 18×16            | 2210                                              | 0.043                | 0.11          |
|                        | 4700                | 12.5×30          | 2650                                              | 0.024                | 0.078         |
|                        | 5600                | 12.5×35          | 2880                                              | 0.020                | 0.065         |
|                        | 5600                | 16×20            | 2530                                              | 0.027                | 0.078         |
|                        | 6800                | 12.5×40          | 3350                                              | 0.017                | 0.056         |
|                        | 6800                | 16×25            | 2930                                              | 0.021                | 0.060         |
|                        | 6800                | 18×20            | 2860                                              | 0.026                | 0.067         |
|                        | 8200                | 16×31.5          | 3450                                              | 0.017                | 0.050         |
|                        | 10000               | 16×35.5          | 3610                                              | 0.015                | 0.044         |
|                        | 10000               | 18×25            | 3140                                              | 0.019                | 0.049         |
|                        | 12000               | 16×40            | 4080                                              | 0.013                | 0.038         |
|                        | 12000               | 18×31.5          | 4170                                              | 0.015                | 0.040         |
|                        | 15000               | 18×35.5          | 4220                                              | 0.014                | 0.038         |
|                        | 18000               | 18×40            | 4280                                              | 0.012                | 0.032         |
| 10                     | 100                 | 5×11             | 210                                               | 0.58                 | 2.3           |
|                        | 220                 | 6.3×11           | 340                                               | 0.22                 | 0.87          |
|                        | 470                 | 8×11.5           | 640                                               | 0.13                 | 0.52          |
|                        | 680                 | 8×16             | 840                                               | 0.087                | 0.35          |
|                        | 680                 | 10×12.5          | 865                                               | 0.080                | 0.32          |
|                        | 1000                | 8×20             | 1050                                              | 0.069                | 0.27          |
|                        | 1000                | 10×16            | 1210                                              | 0.060                | 0.24          |
|                        | 1200                | 10×20            | 1400                                              | 0.046                | 0.18          |
|                        | 1500                | 10×23            | 1650                                              | 0.042                | 0.17          |
|                        | 1500                | 12.5×16          | 1450                                              | 0.049                | 0.16          |
|                        | 2200                | 10×28            | 1910                                              | 0.031                | 0.12          |
|                        | 2200                | 12.5×20          | 1900                                              | 0.035                | 0.12          |
|                        | 2200                | 16×16            | 1940                                              | 0.042                | 0.12          |
|                        | 2700                | 18×16            | 2210                                              | 0.043                | 0.11          |
|                        | 3300                | 12.5×25          | 2230                                              | 0.027                | 0.089         |
|                        | 3900                | 12.5×30          | 2650                                              | 0.024                | 0.078         |
|                        | 3900                | 16×20            | 2530                                              | 0.027                | 0.078         |
|                        | 4700                | 12.5×35          | 2880                                              | 0.020                | 0.065         |
|                        | 5600                | 12.5×40          | 3350                                              | 0.017                | 0.056         |
|                        | 5600                | 16×25            | 2930                                              | 0.021                | 0.060         |
|                        | 5600                | 18×20            | 2860                                              | 0.026                | 0.067         |
|                        | 6800                | 16×31.5          | 3450                                              | 0.017                | 0.050         |
|                        | 6800                | 18×25            | 3140                                              | 0.019                | 0.049         |
|                        | 8200                | 16×35.5          | 3610                                              | 0.015                | 0.044         |
|                        | 8200                | 18×31.5          | 4170                                              | 0.015                | 0.040         |
|                        | 10000               | 16×40            | 4080                                              | 0.013                | 0.038         |
|                        | 10000               | 18×35.5          | 4220                                              | 0.014                | 0.038         |
|                        | 12000               | 18×40            | 4280                                              | 0.012                | 0.032         |

| Rated Voltage<br>(Vdc) | Capacitance<br>(μF) | Size<br>φD×L(mm) | Rated ripple current<br>(mA r.m.s./105°C, 100kHz) | Impedance<br>(Ω MAX) |               |
|------------------------|---------------------|------------------|---------------------------------------------------|----------------------|---------------|
|                        |                     |                  |                                                   | 20°C, 100kHz         | -10°C, 100kHz |
| 16                     | 56                  | 5×11             | 210                                               | 0.58                 | 2.3           |
|                        | 120                 | 6.3×11           | 340                                               | 0.22                 | 0.87          |
|                        | 330                 | 8×11.5           | 640                                               | 0.13                 | 0.52          |
|                        | 470                 | 8×16             | 840                                               | 0.087                | 0.35          |
|                        | 470                 | 10×12.5          | 865                                               | 0.080                | 0.32          |
|                        | 680                 | 8×20             | 1050                                              | 0.069                | 0.27          |
|                        | 680                 | 10×16            | 1210                                              | 0.060                | 0.24          |
|                        | 1000                | 10×20            | 1400                                              | 0.046                | 0.18          |
|                        | 1000                | 12.5×16          | 1450                                              | 0.049                | 0.16          |
|                        | 1200                | 10×23            | 1650                                              | 0.042                | 0.17          |
|                        | 1500                | 10×28            | 1910                                              | 0.031                | 0.12          |
|                        | 1500                | 12.5×20          | 1900                                              | 0.035                | 0.12          |
|                        | 1500                | 16×16            | 1940                                              | 0.042                | 0.12          |
|                        | 2200                | 12.5×25          | 2230                                              | 0.027                | 0.089         |
|                        | 2200                | 18×16            | 2210                                              | 0.043                | 0.11          |
|                        | 2700                | 12.5×30          | 2650                                              | 0.024                | 0.078         |
|                        | 2700                | 16×20            | 2530                                              | 0.027                | 0.078         |
|                        | 3300                | 12.5×35          | 2880                                              | 0.020                | 0.065         |
|                        | 3900                | 12.5×40          | 3350                                              | 0.017                | 0.056         |
|                        | 3900                | 16×25            | 2930                                              | 0.021                | 0.060         |
|                        | 3900                | 18×20            | 2860                                              | 0.026                | 0.067         |
|                        | 4700                | 16×31.5          | 3450                                              | 0.017                | 0.050         |
|                        | 4700                | 18×25            | 3140                                              | 0.019                | 0.049         |
|                        | 5600                | 16×35.5          | 3610                                              | 0.015                | 0.044         |
|                        | 5600                | 18×31.5          | 4170                                              | 0.015                | 0.040         |
|                        | 6800                | 16×40            | 4080                                              | 0.013                | 0.038         |
|                        | 8200                | 18×35.5          | 4220                                              | 0.014                | 0.038         |
|                        | 10000               | 18×40            | 4280                                              | 0.012                | 0.032         |
| 25                     | 47                  | 5×11             | 210                                               | 0.58                 | 2.3           |
|                        | 100                 | 6.3×11           | 340                                               | 0.22                 | 0.87          |
|                        | 220                 | 8×11.5           | 640                                               | 0.13                 | 0.52          |
|                        | 330                 | 8×16             | 840                                               | 0.087                | 0.35          |
|                        | 330                 | 10×12.5          | 865                                               | 0.080                | 0.32          |
|                        | 470                 | 8×20             | 1050                                              | 0.069                | 0.27          |
|                        | 470                 | 10×12.5          | 1700                                              | 0.053                | 0.16          |
|                        | 470                 | 10×16            | 1210                                              | 0.060                | 0.24          |
|                        | 680                 | 10×20            | 1400                                              | 0.046                | 0.18          |
|                        | 680                 | 12.5×16          | 1450                                              | 0.049                | 0.16          |
|                        | 820                 | 10×23            | 1650                                              | 0.042                | 0.17          |
|                        | 1000                | 10×28            | 1910                                              | 0.031                | 0.12          |
|                        | 1000                | 12.5×20          | 1900                                              | 0.035                | 0.12          |
|                        | 1000                | 16×16            | 1940                                              | 0.042                | 0.12          |
|                        | 1200                | 18×16            | 2210                                              | 0.043                | 0.11          |
|                        | 1500                | 12.5×25          | 2230                                              | 0.027                | 0.089         |
|                        | 1800                | 12.5×30          | 2650                                              | 0.024                | 0.078         |
|                        | 1800                | 16×20            | 2530                                              | 0.027                | 0.078         |
|                        | 2200                | 12.5×35          | 2880                                              | 0.020                | 0.065         |
|                        | 2200                | 18×20            | 2860                                              | 0.026                | 0.067         |
|                        | 2700                | 12.5×40          | 3350                                              | 0.017                | 0.056         |
|                        | 2700                | 16×25            | 2930                                              | 0.021                | 0.060         |
|                        | 3300                | 16×31.5          | 3450                                              | 0.017                | 0.050         |
|                        | 3300                | 18×25            | 3140                                              | 0.019                | 0.049         |
|                        | 3900                | 16×35.5          | 3610                                              | 0.015                | 0.044         |
|                        | 3900                | 18×31.5          | 4170                                              | 0.015                | 0.040         |
|                        | 4700                | 16×40            | 4080                                              | 0.013                | 0.038         |
|                        | 4700                | 18×35.5          | 4220                                              | 0.014                | 0.038         |
|                        | 5600                | 18×40            | 4280                                              | 0.012                | 0.032         |

**◆STANDARD SIZE**

| Rated Voltage<br>(Vdc) | Capacitance<br>( $\mu$ F) | Size<br>$\phi$ D×L(mm) | Rated ripple current<br>(mA r.m.s./105°C, 100kHz) | Impedance<br>( $\Omega$ MAX) |               |
|------------------------|---------------------------|------------------------|---------------------------------------------------|------------------------------|---------------|
|                        |                           |                        |                                                   | 20°C, 100kHz                 | -10°C, 100kHz |
| 35                     | 33                        | 5×11                   | 210                                               | 0.58                         | 2.3           |
|                        | 56                        | 6.3×11                 | 340                                               | 0.22                         | 0.87          |
|                        | 150                       | 8×11.5                 | 640                                               | 0.13                         | 0.52          |
|                        | 220                       | 8×16                   | 840                                               | 0.087                        | 0.35          |
|                        | 220                       | 10×12.5                | 865                                               | 0.080                        | 0.32          |
|                        | 270                       | 8×20                   | 1050                                              | 0.069                        | 0.27          |
|                        | 330                       | 10×16                  | 1210                                              | 0.060                        | 0.24          |
|                        | 470                       | 10×20                  | 1400                                              | 0.046                        | 0.18          |
|                        | 470                       | 12.5×16                | 1450                                              | 0.049                        | 0.16          |
|                        | 560                       | 10×23                  | 1650                                              | 0.042                        | 0.17          |
|                        | 680                       | 10×28                  | 1910                                              | 0.031                        | 0.12          |
|                        | 680                       | 12.5×20                | 1900                                              | 0.035                        | 0.12          |
|                        | 680                       | 16×16                  | 1940                                              | 0.042                        | 0.12          |
|                        | 1000                      | 12.5×25                | 2230                                              | 0.027                        | 0.089         |
|                        | 1000                      | 18×16                  | 2210                                              | 0.043                        | 0.11          |
|                        | 1200                      | 12.5×30                | 2650                                              | 0.024                        | 0.078         |
|                        | 1200                      | 16×20                  | 2530                                              | 0.027                        | 0.078         |
|                        | 1500                      | 12.5×35                | 2880                                              | 0.020                        | 0.065         |
|                        | 1800                      | 12.5×40                | 3350                                              | 0.017                        | 0.056         |
|                        | 1800                      | 16×25                  | 2930                                              | 0.021                        | 0.060         |
|                        | 1800                      | 18×20                  | 2860                                              | 0.026                        | 0.067         |
|                        | 2200                      | 16×31.5                | 3450                                              | 0.017                        | 0.050         |
|                        | 2200                      | 18×25                  | 3140                                              | 0.019                        | 0.049         |
|                        | 2700                      | 16×35.5                | 3610                                              | 0.015                        | 0.044         |
|                        | 2700                      | 18×31.5                | 4170                                              | 0.015                        | 0.040         |
|                        | 3300                      | 16×40                  | 4080                                              | 0.013                        | 0.038         |
|                        | 3300                      | 18×35.5                | 4220                                              | 0.014                        | 0.038         |
|                        | 3900                      | 18×40                  | 4280                                              | 0.012                        | 0.032         |
| 50                     | 22                        | 5×11                   | 180                                               | 0.70                         | 2.8           |
|                        | 56                        | 6.3×11                 | 295                                               | 0.30                         | 1.2           |
|                        | 100                       | 8×11.5                 | 555                                               | 0.17                         | 0.68          |
|                        | 120                       | 8×16                   | 730                                               | 0.12                         | 0.48          |
|                        | 150                       | 10×12.5                | 760                                               | 0.12                         | 0.48          |
|                        | 150                       | 10×12.5                | 1280                                              | 0.073                        | 0.22          |
|                        | 180                       | 8×20                   | 910                                               | 0.091                        | 0.36          |
|                        | 220                       | 10×16                  | 1050                                              | 0.084                        | 0.34          |
|                        | 270                       | 10×20                  | 1220                                              | 0.060                        | 0.24          |
|                        | 270                       | 12.5×16                | 1260                                              | 0.061                        | 0.20          |
|                        | 330                       | 10×23                  | 1440                                              | 0.055                        | 0.22          |
|                        | 470                       | 10×28                  | 1690                                              | 0.043                        | 0.17          |
|                        | 470                       | 12.5×20                | 1660                                              | 0.045                        | 0.15          |
|                        | 470                       | 16×16                  | 1690                                              | 0.055                        | 0.17          |
|                        | 560                       | 12.5×25                | 1950                                              | 0.034                        | 0.11          |
|                        | 560                       | 18×16                  | 1930                                              | 0.054                        | 0.15          |
|                        | 680                       | 12.5×30                | 2310                                              | 0.030                        | 0.10          |
|                        | 820                       | 12.5×35                | 2510                                              | 0.025                        | 0.083         |
|                        | 820                       | 16×20                  | 2210                                              | 0.034                        | 0.10          |
|                        | 1000                      | 12.5×40                | 2920                                              | 0.021                        | 0.069         |
|                        | 1000                      | 16×25                  | 2555                                              | 0.025                        | 0.075         |
|                        | 1000                      | 18×20                  | 2490                                              | 0.036                        | 0.097         |
|                        | 1200                      | 16×31.5                | 3010                                              | 0.022                        | 0.066         |
|                        | 1200                      | 18×25                  | 2740                                              | 0.026                        | 0.070         |
|                        | 1500                      | 16×35.5                | 3150                                              | 0.019                        | 0.057         |
|                        | 1800                      | 16×40                  | 3710                                              | 0.016                        | 0.048         |
|                        | 1800                      | 18×31.5                | 3635                                              | 0.021                        | 0.057         |
|                        | 2200                      | 18×35.5                | 3680                                              | 0.017                        | 0.046         |
|                        | 2700                      | 18×40                  | 3800                                              | 0.014                        | 0.038         |
| 63                     | 15                        | 5×11                   | 55                                                | 2.3                          | 9.3           |
|                        | 33                        | 6.3×11                 | 115                                               | 1.2                          | 5.0           |
|                        | 56                        | 8×11.5                 | 232                                               | 0.63                         | 2.8           |
|                        | 82                        | 8×16                   | 300                                               | 0.45                         | 2.1           |
|                        | 82                        | 10×12.5                | 288                                               | 0.43                         | 1.8           |
|                        | 120                       | 8×20                   | 362                                               | 0.33                         | 1.6           |
|                        | 120                       | 10×16                  | 357                                               | 0.31                         | 1.5           |
|                        | 180                       | 10×20                  | 466                                               | 0.21                         | 0.94          |
|                        | 180                       | 12.5×16                | 466                                               | 0.23                         | 1.1           |
|                        | 220                       | 10×23                  | 531                                               | 0.20                         | 0.84          |
|                        | 270                       | 10×28                  | 663                                               | 0.15                         | 0.71          |
|                        | 270                       | 12.5×20                | 690                                               | 0.16                         | 0.64          |
|                        | 270                       | 16×16                  | 795                                               | 0.14                         | 0.66          |
|                        | 330                       | 12.5×25                | 784                                               | 0.12                         | 0.45          |
|                        | 390                       | 18×16                  | 920                                               | 0.12                         | 0.50          |
|                        | 470                       | 12.5×30                | 905                                               | 0.10                         | 0.42          |
|                        | 470                       | 16×20                  | 1040                                              | 0.091                        | 0.38          |
|                        | 560                       | 12.5×35                | 1050                                              | 0.083                        | 0.35          |
|                        | 560                       | 16×25                  | 1250                                              | 0.073                        | 0.27          |
|                        | 680                       | 12.5×40                | 1180                                              | 0.071                        | 0.30          |
|                        | 680                       | 18×20                  | 1240                                              | 0.080                        | 0.30          |
|                        | 820                       | 16×31.5                | 1570                                              | 0.054                        | 0.20          |
|                        | 820                       | 18×25                  | 1490                                              | 0.057                        | 0.21          |
|                        | 1000                      | 16×35.5                | 1790                                              | 0.045                        | 0.17          |
|                        | 1000                      | 18×31.5                | 1630                                              | 0.047                        | 0.17          |
|                        | 1200                      | 16×40                  | 2020                                              | 0.040                        | 0.15          |
|                        | 1200                      | 18×35.5                | 1790                                              | 0.040                        | 0.15          |
|                        | 1500                      | 18×40                  | 2330                                              | 0.036                        | 0.13          |
| 100                    | 6.8                       | 5×11                   | 55                                                | 2.3                          | 9.3           |
|                        | 15                        | 6.3×11                 | 115                                               | 1.2                          | 5.0           |
|                        | 27                        | 8×11.5                 | 232                                               | 0.63                         | 2.8           |
|                        | 39                        | 8×16                   | 300                                               | 0.45                         | 2.1           |
|                        | 47                        | 10×12.5                | 288                                               | 0.43                         | 1.8           |
|                        | 56                        | 8×20                   | 362                                               | 0.33                         | 1.6           |
|                        | 56                        | 10×12.5                | 1000                                              | 0.17                         | 0.66          |
|                        | 68                        | 10×16                  | 357                                               | 0.31                         | 1.5           |
|                        | 82                        | 10×20                  | 466                                               | 0.21                         | 0.94          |
|                        | 82                        | 12.5×16                | 466                                               | 0.23                         | 1.1           |
|                        | 100                       | 10×23                  | 531                                               | 0.20                         | 0.84          |
|                        | 120                       | 10×28                  | 663                                               | 0.15                         | 0.71          |
|                        | 120                       | 12.5×20                | 690                                               | 0.16                         | 0.64          |
|                        | 150                       | 16×16                  | 795                                               | 0.14                         | 0.66          |
|                        | 180                       | 12.5×25                | 784                                               | 0.12                         | 0.45          |
|                        | 180                       | 18×16                  | 920                                               | 0.12                         | 0.50          |
|                        | 220                       | 12.5×30                | 905                                               | 0.10                         | 0.42          |
|                        | 220                       | 16×20                  | 1040                                              | 0.091                        | 0.38          |
|                        | 270                       | 12.5×35                | 1050                                              | 0.083                        | 0.35          |
|                        | 270                       | 16×25                  | 1250                                              | 0.073                        | 0.27          |
|                        | 330                       | 12.5×40                | 1180                                              | 0.071                        | 0.30          |
|                        | 330                       | 18×20                  | 1240                                              | 0.080                        | 0.30          |
|                        | 390                       | 16×31.5                | 1570                                              | 0.054                        | 0.20          |
|                        | 390                       | 18×25                  | 1490                                              | 0.057                        | 0.21          |
|                        | 470                       | 16×35.5                | 1790                                              | 0.045                        | 0.17          |
|                        | 470                       | 18×31.5                | 1630                                              | 0.047                        | 0.17          |
|                        | 560                       | 16×40                  | 2020                                              | 0.040                        | 0.15          |
|                        | 680                       | 18×35.5                | 1790                                              | 0.040                        | 0.15          |
|                        | 820                       | 18×40                  | 2330                                              | 0.036                        | 0.13          |

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