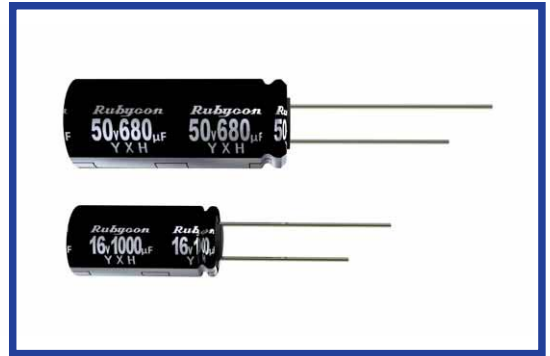


105℃ 長寿命 低インピーダンス品  
105℃ Long Life, Low Impedance

- 105℃ 4000~10000時間品。  
Lead Life : 105℃ 4000~10000 hours.

RoHS  
compliance

生産中止品  
Obsolete Products



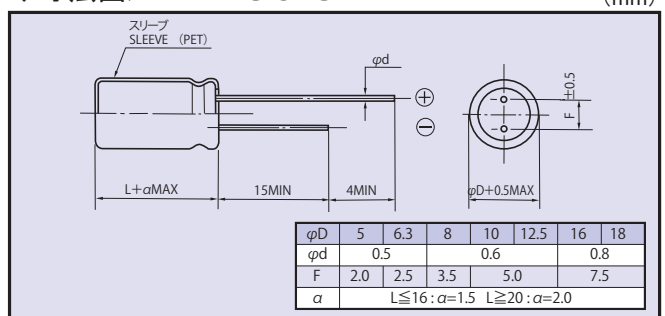
## ◆規格表／SPECIFICATIONS

| 項 目                                                                     | Items                                                    | 特 性                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Characteristics      |                               |                                                 |                     |                      |      |                              |                                                          |           |           |                         |                                             |      |      |      |      |        |      |      |                |   |         |      |      |   |   |         |      |       |
|-------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------|-------------------------------------------------|---------------------|----------------------|------|------------------------------|----------------------------------------------------------|-----------|-----------|-------------------------|---------------------------------------------|------|------|------|------|--------|------|------|----------------|---|---------|------|------|---|---|---------|------|-------|
| カテゴリー温度範囲<br>Category Temperature Range                                 |                                                          | -40~+105℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |                               |                                                 |                     |                      |      |                              |                                                          |           |           |                         |                                             |      |      |      |      |        |      |      |                |   |         |      |      |   |   |         |      |       |
| 定格電圧範囲<br>Rated Voltage Range                                           |                                                          | 6.3~100Vdc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |                               |                                                 |                     |                      |      |                              |                                                          |           |           |                         |                                             |      |      |      |      |        |      |      |                |   |         |      |      |   |   |         |      |       |
| 静電容量許容差<br>Capacitance Tolerance                                        |                                                          | ±20% (20℃, 120Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      |                               |                                                 |                     |                      |      |                              |                                                          |           |           |                         |                                             |      |      |      |      |        |      |      |                |   |         |      |      |   |   |         |      |       |
| 漏れ電流<br>Leakage Current(MAX)                                            |                                                          | I=0.01CV又は3μAのいずれか大なる値以下 (定格電圧印加2分後)<br>I=0.01CV or 3μA whichever is greater. (After 2 minutes)<br><br>I=漏れ電流(μA)                      C=静電容量(μF)                      V=定格電圧(Vdc)<br>Leakage Current                      Capacitance                      Rated Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |                               |                                                 |                     |                      |      |                              |                                                          |           |           |                         |                                             |      |      |      |      |        |      |      |                |   |         |      |      |   |   |         |      |       |
| 損失角の正接 (tanδ)<br>Dissipation Factor(MAX)                                |                                                          | <table><tr><td>定格電圧(Vdc)<br/>Rated Voltage</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> <p>(20℃, 120Hz)</p> <p>1000μFを越えるものは1000μF増す毎に上表の値に0.02を加えた値とする。<br/>When capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000 μF.</p>                                                                                                                                                                                                                                                                                                                                                                                                                  |                      | 定格電圧(Vdc)<br>Rated Voltage    | 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 |                |   |         |      |      |   |   |         |      |       |
| 定格電圧(Vdc)<br>Rated Voltage                                              | 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 |                              |                                                          |           |           |                         |                                             |      |      |      |      |        |      |      |                |   |         |      |      |   |   |         |      |       |
| 耐 久 性<br>Endurance                                                      |                                                          | <p>105℃中で右表の時間定格電圧(リプル重畳)印加後、下記の項目を満足すること。<br/>After applying rated voltage with rated ripple current for specified time at 105℃, the capacitors shall meet the following requirements.</p> <table><tr><td>静電容量変化率<br/>Capacitance Change</td><td>初期値の±25%以内<br/>Within ±25% of the initial value.</td><td rowspan="3">ケースサイズ<br/>Case Size</td><td colspan="2">時間(hrs)<br/>Life Time</td></tr><tr><td>損失角の正接<br/>Dissipation Factor</td><td>規格値の200%以下<br/>Not more than 200% of the specified value.</td><td>6.3~10Vdc</td><td>16~100Vdc</td></tr><tr><td>漏れ電流<br/>Leakage Current</td><td>規格値以下<br/>Not more than the specified value.</td><td></td><td></td></tr><tr><td></td><td></td><td>φD≤6.3</td><td>4000</td><td>5000</td></tr><tr><td></td><td></td><td>φD=8,10</td><td>6000</td><td>7000</td></tr><tr><td></td><td></td><td>φD≥12.5</td><td>8000</td><td>10000</td></tr></table> |                      | 静電容量変化率<br>Capacitance Change | 初期値の±25%以内<br>Within ±25% of the initial value. | ケースサイズ<br>Case Size | 時間(hrs)<br>Life Time |      | 損失角の正接<br>Dissipation Factor | 規格値の200%以下<br>Not more than 200% of the specified value. | 6.3~10Vdc | 16~100Vdc | 漏れ電流<br>Leakage Current | 規格値以下<br>Not more than the specified value. |      |      |      |      | φD≤6.3 | 4000 | 5000 |                |   | φD=8,10 | 6000 | 7000 |   |   | φD≥12.5 | 8000 | 10000 |
| 静電容量変化率<br>Capacitance Change                                           | 初期値の±25%以内<br>Within ±25% of the initial value.          | ケースサイズ<br>Case Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 時間(hrs)<br>Life Time |                               |                                                 |                     |                      |      |                              |                                                          |           |           |                         |                                             |      |      |      |      |        |      |      |                |   |         |      |      |   |   |         |      |       |
| 損失角の正接<br>Dissipation Factor                                            | 規格値の200%以下<br>Not more than 200% of the specified value. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6.3~10Vdc            | 16~100Vdc                     |                                                 |                     |                      |      |                              |                                                          |           |           |                         |                                             |      |      |      |      |        |      |      |                |   |         |      |      |   |   |         |      |       |
| 漏れ電流<br>Leakage Current                                                 | 規格値以下<br>Not more than the specified value.              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |                               |                                                 |                     |                      |      |                              |                                                          |           |           |                         |                                             |      |      |      |      |        |      |      |                |   |         |      |      |   |   |         |      |       |
|                                                                         |                                                          | φD≤6.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4000                 | 5000                          |                                                 |                     |                      |      |                              |                                                          |           |           |                         |                                             |      |      |      |      |        |      |      |                |   |         |      |      |   |   |         |      |       |
|                                                                         |                                                          | φD=8,10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6000                 | 7000                          |                                                 |                     |                      |      |                              |                                                          |           |           |                         |                                             |      |      |      |      |        |      |      |                |   |         |      |      |   |   |         |      |       |
|                                                                         |                                                          | φD≥12.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8000                 | 10000                         |                                                 |                     |                      |      |                              |                                                          |           |           |                         |                                             |      |      |      |      |        |      |      |                |   |         |      |      |   |   |         |      |       |
| 低温特性<br>Low Temperature Stability<br>(インピーダンス比)<br>Impedance Ratio(MAX) |                                                          | <table><tr><td>定格電圧(Vdc)<br/>Rated Voltage</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> <p>(120Hz)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      | 定格電圧(Vdc)<br>Rated Voltage    | 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    |       |
| 定格電圧(Vdc)<br>Rated Voltage                                              | 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    |                              |                                                          |           |           |                         |                                             |      |      |      |      |        |      |      |                |   |         |      |      |   |   |         |      |       |

## ◆リプル電流補正係数／ MULTIPLIER FOR RIPPLE CURRENT

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

## ◆寸法図／DIMENSIONS



## ◆呼称方法／PART NUMBER

|                       |                 |                     |                                  |               |                         |                     |
|-----------------------|-----------------|---------------------|----------------------------------|---------------|-------------------------|---------------------|
| □□□                   | YXH             | □□□□□               | M                                | □□□           | □□                      | DXL                 |
| 定格電圧<br>Rated Voltage | シリーズ名<br>Series | 静電容量<br>Capacitance | 静電容量許容差<br>Capacitance Tolerance | 副記号<br>Option | リード加工記号<br>Lead Forming | ケースサイズ<br>Case Size |

## ◆副記号／OPTION

|         |            |         |
|---------|------------|---------|
| PETスリーブ | PET Sleeve | 記号 Code |
|         |            | EFC     |

### ◆標準品一覧表／STANDARD SIZE

| 定格電圧<br>Rated Voltage<br>(Vdc) | 静電容量<br>Capacitance<br>(μF) | 外形寸法<br>Size<br>φD×L(mm) | 定格リプル電流<br>Rated ripple current<br>(mA r.m.s./105°C, 100kHz) | インピーダンス(Ω MAX)<br>Impedance |               |
|--------------------------------|-----------------------------|--------------------------|--------------------------------------------------------------|-----------------------------|---------------|
|                                |                             |                          |                                                              | 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                                                          | 0.08                        | 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         |
| 10                             | 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         |
|                                | 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         |
| 16                             | 6800                        | 16×31.5                  | 3450                                                         | 0.017                       | 0.050         |
|                                | 8200                        | 16×35.5                  | 3610                                                         | 0.015                       | 0.044         |
|                                | 10000                       | 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         |
|                                | 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                         | 10×16                    | 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         |
| 25                             | 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         |

生産中止品  
Discontinue Products

### ◆標準品一覧表／STANDARD SIZE

| 定格電圧<br>Rated Voltage<br>(Vdc) | 静電容量<br>Capacitance<br>(μF) | 外形寸法<br>Size<br>φD×L(mm) | 定格リプル電流<br>Rated ripple current<br>(mA r.m.s./105°C, 100kHz) | インピーダンス(Ω MAX)<br>Impedance |               |
|--------------------------------|-----------------------------|--------------------------|--------------------------------------------------------------|-----------------------------|---------------|
|                                |                             |                          |                                                              | 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         |
| 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          |
|                                | 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         |
| 63                             | 15                          | 5×11                     | 62                                                           | 1.8                         | 7.3           |
|                                | 33                          | 6.3×11                   | 126                                                          | 1.0                         | 4.1           |
|                                | 56                          | 8×11.5                   | 260                                                          | 0.50                        | 2.2           |
|                                | 82                          | 8×16                     | 335                                                          | 0.36                        | 1.7           |
|                                | 82                          | 10×12.5                  | 325                                                          | 0.34                        | 1.4           |
|                                | 120                         | 8×20                     | 408                                                          | 0.26                        | 1.3           |
|                                | 120                         | 10×16                    | 400                                                          | 0.25                        | 1.2           |
|                                | 180                         | 10×20                    | 518                                                          | 0.17                        | 0.76          |
|                                | 180                         | 12.5×16                  | 527                                                          | 0.18                        | 0.86          |
|                                | 220                         | 10×23                    | 595                                                          | 0.16                        | 0.67          |
|                                | 270                         | 10×28                    | 740                                                          | 0.12                        | 0.57          |
|                                | 270                         | 12.5×20                  | 765                                                          | 0.13                        | 0.52          |
|                                | 270                         | 16×16                    | 895                                                          | 0.11                        | 0.52          |
|                                | 330                         | 12.5×25                  | 875                                                          | 0.096                       | 0.36          |
|                                | 390                         | 18×16                    | 1030                                                         | 0.096                       | 0.40          |
|                                | 470                         | 12.5×30                  | 1010                                                         | 0.080                       | 0.34          |
|                                | 470                         | 16×20                    | 1130                                                         | 0.077                       | 0.32          |
|                                | 560                         | 12.5×35                  | 1140                                                         | 0.070                       | 0.30          |
|                                | 560                         | 16×25                    | 1350                                                         | 0.062                       | 0.23          |
|                                | 680                         | 12.5×40                  | 1280                                                         | 0.060                       | 0.25          |
|                                | 680                         | 18×20                    | 1300                                                         | 0.072                       | 0.27          |
|                                | 820                         | 16×31.5                  | 1650                                                         | 0.049                       | 0.18          |
|                                | 820                         | 18×25                    | 1560                                                         | 0.052                       | 0.19          |
|                                | 1000                        | 16×35.5                  | 1900                                                         | 0.040                       | 0.15          |
| 100                            | 15                          | 5×11                     | 62                                                           | 1.8                         | 7.3           |
|                                | 33                          | 6.3×11                   | 126                                                          | 1.0                         | 4.1           |
|                                | 56                          | 8×11.5                   | 260                                                          | 0.50                        | 2.2           |
|                                | 82                          | 8×16                     | 335                                                          | 0.36                        | 1.7           |
|                                | 82                          | 10×12.5                  | 325                                                          | 0.34                        | 1.4           |
|                                | 120                         | 8×20                     | 408                                                          | 0.26                        | 1.3           |
|                                | 120                         | 10×16                    | 400                                                          | 0.25                        | 1.2           |
|                                | 180                         | 10×20                    | 518                                                          | 0.17                        | 0.76          |
|                                | 180                         | 12.5×16                  | 527                                                          | 0.18                        | 0.86          |
|                                | 220                         | 10×23                    | 595                                                          | 0.16                        | 0.67          |
|                                | 270                         | 10×28                    | 740                                                          | 0.12                        | 0.57          |
|                                | 270                         | 12.5×20                  | 765                                                          | 0.13                        | 0.52          |
|                                | 330                         | 16×16                    | 895                                                          | 0.11                        | 0.52          |
|                                | 390                         | 18×16                    | 1030                                                         | 0.096                       | 0.40          |
|                                | 470                         | 12.5×30                  | 1010                                                         | 0.080                       | 0.34          |
|                                | 470                         | 16×20                    | 1130                                                         | 0.077                       | 0.32          |
|                                | 560                         | 12.5×35                  | 1140                                                         | 0.070                       | 0.30          |
|                                | 560                         | 16×25                    | 1350                                                         | 0.062                       | 0.23          |
|                                | 680                         | 12.5×40                  | 1280                                                         | 0.060                       | 0.25          |
|                                | 680                         | 18×20                    | 1300                                                         | 0.072                       | 0.27          |
|                                | 820                         | 16×31.5                  | 1650                                                         | 0.049                       | 0.18          |
|                                | 820                         | 18×25                    | 1560                                                         | 0.052                       | 0.19          |
|                                | 1000                        | 16×35.5                  | 1900                                                         | 0.040                       | 0.15          |
|                                | 1000                        | 18×31.5                  | 1720                                                         | 0.042                       | 0.15          |
|                                | 1200                        | 16×40                    | 2130                                                         | 0.036                       | 0.13          |
|                                | 1200                        | 18×35.5                  | 1890                                                         | 0.036                       | 0.13          |
|                                | 1500                        | 18×40                    | 2470                                                         | 0.032                       | 0.12          |
|                                | 1500                        | 18×40                    | 2470                                                         | 0.032                       | 0.12          |

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