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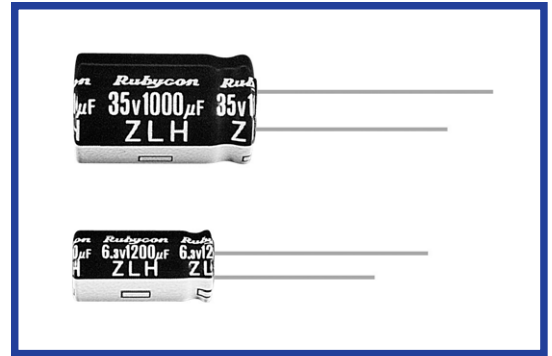
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**ZLH SERIES**
**105°C Miniaturized, Long Life, Low impedance.**
**◆FEATURES**

- Achieved endurance improvement and miniaturization of ZL series, as well as high frequency impedance reduction.
- Load Life : 105°C 6000~10000 hours.
- RoHS compliance.


**◆SPECIFICATIONS**

| Items  | Characteristics   |                    |  |           |                 |                    |  |          |      |                 |                                    |               |                  |      |      |         |       |      |      |      |      |      |  |                  |   |   |   |   |   |   |   |   |   |  |
|--|---|--------------------|--|-----------|-----------------|--------------------|--|----------|------|-----------------|------------------------------------|---------------|------------------|------|------|---------|-------|------|------|------|------|------|--|------------------|---|---|---|---|---|---|---|---|---|--|
| Category Temperature Range                     | -40~+105°C  |                    |  |           |                 |                    |  |          |      |                 |                                    |               |                  |      |      |         |       |      |      |      |      |      |  |                  |   |   |   |   |   |   |   |   |   |  |
| Rated Voltage Range                            | 6.3~100V.DC   |                    |  |           |                 |                    |  |          |      |                 |                                    |               |                  |      |      |         |       |      |      |      |      |      |  |                  |   |   |   |   |   |   |   |   |   |  |
| Capacitance Tolerance                          | ±20% (20°C, 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(V)  |                    |  |           |                 |                    |  |          |      |                 |                                    |               |                  |      |      |         |       |      |      |      |      |      |  |                  |   |   |   |   |   |   |   |   |   |  |
| (tanδ)<br>Dissipation Factor(MAX)              | <table border="1"> <tr> <td>Rated Voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> <td>(20°C, 120Hz)</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> <td>0.08</td> <td></td> </tr> </table> <p>When capacitance is over 1000µF, tanδ shall be added 0.02 to the listed value with increase of every 1000µF.</p>   | Rated Voltage (V)  | 6.3  | 10        | 16              | 25                 | 35   | 50       | 63   | 80              | 100                                | (20°C, 120Hz) | tanδ             | 0.22 | 0.19 | 0.16    | 0.14  | 0.12 | 0.10 | 0.09 | 0.08 | 0.08 |  |                  |   |   |   |   |   |   |   |   |   |  |
| Rated Voltage (V)                              | 6.3   | 10                 | 16   | 25        | 35              | 50                 | 63   | 80       | 100  | (20°C, 120Hz)   |                                    |               |                  |      |      |         |       |      |      |      |      |      |  |                  |   |   |   |   |   |   |   |   |   |  |
| tanδ   | 0.22  | 0.19               | 0.16   | 0.14      | 0.12            | 0.10               | 0.09                                       | 0.08     | 0.08 |                 |                                    |               |                  |      |      |         |       |      |      |      |      |      |  |                  |   |   |   |   |   |   |   |   |   |  |
| Endurance                                      | <p>After life test with rated ripple current at conditions stated in the table below at 105°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±25% of the initial value. (6.3v, 10v : ±30%)</td> <td>Case Size</td> <td>Life Time (hrs)</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> <td>φD ≤ 6.3</td> <td>6000</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> <td>φD = 8</td> <td>8000</td> </tr> <tr> <td></td> <td></td> <td>φD ≥ 10</td> <td>10000</td> </tr> </table> | Capacitance Change | Within ±25% of the initial value. (6.3v, 10v : ±30%) | Case Size | Life Time (hrs) | Dissipation Factor | Not more than 200% of the specified value. | φD ≤ 6.3 | 6000 | Leakage Current | Not more than the specified value. | φD = 8        | 8000             |      |      | φD ≥ 10 | 10000 |      |      |      |      |      |  |                  |   |   |   |   |   |   |   |   |   |  |
| Capacitance Change                             | Within ±25% of the initial value. (6.3v, 10v : ±30%)  | Case Size          | Life Time (hrs)                                      |           |                 |                    |  |          |      |                 |                                    |               |                  |      |      |         |       |      |      |      |      |      |  |                  |   |   |   |   |   |   |   |   |   |  |
| Dissipation Factor                             | Not more than 200% of the specified value.  | φD ≤ 6.3           | 6000   |           |                 |                    |  |          |      |                 |                                    |               |                  |      |      |         |       |      |      |      |      |      |  |                  |   |   |   |   |   |   |   |   |   |  |
| Leakage Current                                | Not more than the specified value.  | φD = 8             | 8000   |           |                 |                    |  |          |      |                 |                                    |               |                  |      |      |         |       |      |      |      |      |      |  |                  |   |   |   |   |   |   |   |   |   |  |
|  |   | φD ≥ 10            | 10000  |           |                 |                    |  |          |      |                 |                                    |               |                  |      |      |         |       |      |      |      |      |      |  |                  |   |   |   |   |   |   |   |   |   |  |
| Low Temperature Stability Impedance Ratio(MAX) | <table border="1"> <tr> <td>Rated Voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> <td>(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td></td> </tr> </table>  | Rated Voltage (V)  | 6.3  | 10        | 16              | 25                 | 35   | 50       | 63   | 80              | 100                                | (120Hz)       | Z(-25°C)/Z(20°C) | 2    | 2    | 2       | 2     | 2    | 2    | 2    | 2    | 2    |  | Z(-40°C)/Z(20°C) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |  |
| Rated Voltage (V)                              | 6.3   | 10                 | 16   | 25        | 35              | 50                 | 63   | 80       | 100  | (120Hz)         |                                    |               |                  |      |      |         |       |      |      |      |      |      |  |                  |   |   |   |   |   |   |   |   |   |  |
| Z(-25°C)/Z(20°C)                               | 2   | 2                  | 2  | 2         | 2               | 2                  | 2  | 2        | 2    |                 |                                    |               |                  |      |      |         |       |      |      |      |      |      |  |                  |   |   |   |   |   |   |   |   |   |  |
| Z(-40°C)/Z(20°C)                               | 3   | 3                  | 3  | 3         | 3               | 3                  | 3  | 3        | 3    |                 |                                    |               |                  |      |      |         |       |      |      |      |      |      |  |                  |   |   |   |   |   |   |   |   |   |  |

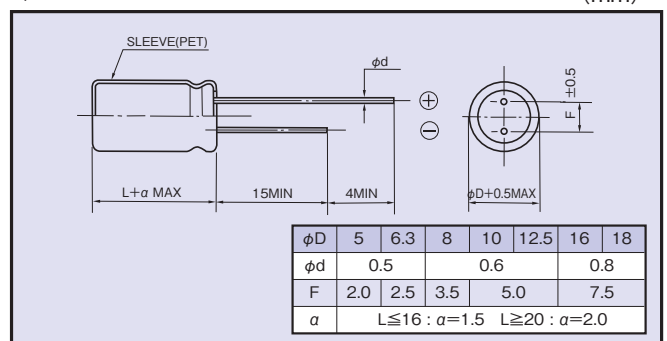
**◆MULTIPLIER FOR RIPPLE CURRENT**

Frequency Coefficient

| Frequency (Hz) |             | 120  | 1k   | 10k  | 100k ≤ |
|----------------|-------------|------|------|------|--------|
| Coefficient    | 8.2~33µF    | 0.42 | 0.70 | 0.90 | 1.00   |
|                | 47~270µF    | 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   |
|                | 2200~8200µF | 0.70 | 0.85 | 0.98 | 1.00   |

**◆DIMENSIONS**

(mm)


**◆OPTION**

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

**◆PART NUMBER**

|               |        |             |                       |        |              |           |
|---------------|--------|-------------|-----------------------|--------|--------------|-----------|
| □□□           | ZLH    | □□□□□       | M                     | □□□    | □□           | DXL       |
| Rated Voltage | Series | Capacitance | Capacitance Tolerance | Option | Lead Forming | Case Size |

**◆STANDARD SIZE**

| Rated Voltage<br>(V·DC) | 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 |
| 6.3<br>(0J)             | 220                       | 5×11                   | 345   | 0.22                         | 0.80          |
|                         | 470                       | 6.3×11                 | 540   | 0.094                        | 0.35          |
|                         | 820                       | 8×11.5                 | 945   | 0.056                        | 0.19          |
|                         | 1200                      | 8×16                   | 1250  | 0.045                        | 0.15          |
|                         | 1200                      | 10×12.5                | 1330  | 0.039                        | 0.14          |
|                         | 1500                      | 8×20                   | 1500  | 0.029                        | 0.11          |
|                         | 1800                      | 10×16                  | 1760  | 0.028                        | 0.10          |
|                         | 2200                      | 10×20                  | 1960  | 0.020                        | 0.060         |
|                         | 2700                      | 10×23                  | 2250  | 0.018                        | 0.054         |
|                         | 3900                      | 12.5×20                | 2480  | 0.017                        | 0.043         |
|                         | 4700                      | 12.5×25                | 2900  | 0.015                        | 0.038         |
|                         | 5600                      | 12.5×30                | 3450  | 0.013                        | 0.033         |
|                         | 6800                      | 16×20                  | 3250  | 0.015                        | 0.038         |
|                         | 6800                      | 12.5×35                | 3570  | 0.012                        | 0.031         |
| 8200                    | 16×25                     | 3630                   | 0.013   | 0.035                        |               |
| 10<br>(1A)              | 150                       | 5×11                   | 345   | 0.22                         | 0.80          |
|                         | 330                       | 6.3×11                 | 540   | 0.094                        | 0.35          |
|                         | 680                       | 8×11.5                 | 945   | 0.056                        | 0.19          |
|                         | 1000                      | 8×16                   | 1250  | 0.045                        | 0.15          |
|                         | 1000                      | 10×12.5                | 1330  | 0.039                        | 0.14          |
|                         | 1500                      | 8×20                   | 1500  | 0.029                        | 0.11          |
|                         | 1500                      | 10×16                  | 1760  | 0.028                        | 0.10          |
|                         | 1800                      | 10×20                  | 1960  | 0.020                        | 0.060         |
|                         | 2200                      | 10×23                  | 2250  | 0.018                        | 0.054         |
|                         | 3300                      | 12.5×20                | 2480  | 0.017                        | 0.043         |
|                         | 3900                      | 12.5×25                | 2900  | 0.015                        | 0.038         |
|                         | 4700                      | 12.5×30                | 3450  | 0.013                        | 0.033         |
|                         | 4700                      | 16×20                  | 3250  | 0.015                        | 0.038         |
|                         | 5600                      | 12.5×35                | 3570  | 0.012                        | 0.031         |
| 6800                    | 16×25                     | 3630                   | 0.013   | 0.035                        |               |
| 16<br>(1C)              | 100                       | 5×11                   | 345   | 0.22                         | 0.80          |
|                         | 220                       | 6.3×11                 | 540   | 0.094                        | 0.35          |
|                         | 470                       | 8×11.5                 | 945   | 0.056                        | 0.19          |
|                         | 680                       | 8×16                   | 1250  | 0.045                        | 0.15          |
|                         | 680                       | 10×12.5                | 1330  | 0.039                        | 0.14          |
|                         | 1000                      | 8×20                   | 1500  | 0.029                        | 0.11          |
|                         | 1000                      | 10×16                  | 1760  | 0.028                        | 0.10          |
|                         | 1500                      | 10×20                  | 1960  | 0.020                        | 0.060         |
|                         | 1800                      | 10×23                  | 2250  | 0.018                        | 0.054         |
|                         | 2200                      | 12.5×20                | 2480  | 0.017                        | 0.043         |
|                         | 2700                      | 12.5×25                | 2900  | 0.015                        | 0.038         |
|                         | 3300                      | 12.5×30                | 3450  | 0.013                        | 0.033         |
|                         | 3300                      | 16×20                  | 3250  | 0.015                        | 0.038         |
|                         | 3900                      | 12.5×35                | 3570  | 0.012                        | 0.031         |
| 4700                    | 16×25                     | 3630                   | 0.013   | 0.035                        |               |
| 25<br>(1E)              | 68                        | 5×11                   | 345   | 0.22                         | 0.80          |
|                         | 150                       | 6.3×11                 | 540   | 0.094                        | 0.35          |
|                         | 330                       | 8×11.5                 | 945   | 0.056                        | 0.19          |
|                         | 390                       | 8×16                   | 1250  | 0.045                        | 0.15          |
|                         | 470                       | 10×12.5                | 1330  | 0.039                        | 0.14          |
|                         | 560                       | 8×20                   | 1500  | 0.029                        | 0.11          |
|                         | 680                       | 10×16                  | 1760  | 0.028                        | 0.10          |
|                         | 820                       | 10×20                  | 1960  | 0.020                        | 0.060         |
|                         | 1000                      | 10×23                  | 2250  | 0.018                        | 0.054         |
|                         | 1500                      | 12.5×20                | 2480  | 0.017                        | 0.043         |
|                         | 1800                      | 12.5×25                | 2900  | 0.015                        | 0.038         |
|                         | 2200                      | 12.5×30                | 3450  | 0.013                        | 0.033         |
|                         | 2200                      | 16×20                  | 3250  | 0.015                        | 0.038         |
|                         | 2700                      | 12.5×35                | 3570  | 0.012                        | 0.031         |
| 3300                    | 16×25                     | 3630                   | 0.013   | 0.035                        |               |
| 35<br>(1V)              | 47                        | 5×11                   | 345   | 0.22                         | 0.80          |
|                         | 100                       | 6.3×11                 | 540   | 0.094                        | 0.35          |
|                         | 220                       | 8×11.5                 | 945   | 0.056                        | 0.19          |
|                         | 270                       | 8×16                   | 1250  | 0.045                        | 0.15          |
|                         | 330                       | 10×12.5                | 1330  | 0.039                        | 0.14          |
|                         | 390                       | 8×20                   | 1500  | 0.029                        | 0.11          |
|                         | 470                       | 10×16                  | 1760  | 0.028                        | 0.10          |
|                         | 560                       | 10×20                  | 1960  | 0.020                        | 0.060         |
|                         | 680                       | 10×23                  | 2250  | 0.018                        | 0.054         |
|                         | 1000                      | 12.5×20                | 2480  | 0.017                        | 0.043         |
|                         | 1200                      | 12.5×25                | 2900  | 0.015                        | 0.038         |
|                         | 1500                      | 12.5×30                | 3450  | 0.013                        | 0.033         |
|                         | 1500                      | 16×20                  | 3250  | 0.015                        | 0.038         |
|                         | 1800                      | 12.5×35                | 3570  | 0.012                        | 0.031         |
| 2200                    | 16×25                     | 3630                   | 0.013   | 0.035                        |               |
| 50<br>(1H)              | 27                        | 5×11                   | 238   | 0.34                         | 1.18          |
|                         | 56                        | 6.3×11                 | 385   | 0.14                         | 0.50          |
|                         | 100                       | 8×11.5                 | 724   | 0.074                        | 0.22          |
|                         | 120                       | 8×16                   | 950   | 0.061                        | 0.18          |
|                         | 150                       | 10×12.5                | 979   | 0.061                        | 0.18          |
|                         | 180                       | 8×20                   | 1190  | 0.046                        | 0.14          |
|                         | 220                       | 10×16                  | 1370  | 0.042                        | 0.12          |
|                         | 270                       | 10×20                  | 1580  | 0.030                        | 0.090         |
|                         | 330                       | 10×23                  | 1870  | 0.028                        | 0.085         |
|                         | 470                       | 12.5×20                | 2050  | 0.027                        | 0.068         |
|                         | 560                       | 12.5×25                | 2410  | 0.023                        | 0.059         |
|                         | 680                       | 12.5×30                | 2860  | 0.021                        | 0.052         |
|                         | 820                       | 12.5×35                | 2960  | 0.019                        | 0.051         |
|                         | 820                       | 16×20                  | 2730  | 0.023                        | 0.059         |
| 1000                    | 16×25                     | 3010                   | 0.021   | 0.056                        |               |

**◆STANDARD SIZE**

| Rated Voltage<br>(V·DC) | 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 |
| 63<br>(1J)              | 18                        | 5×11                   | 173   | 0.88                         | 3.5           |
|                         | 47                        | 6.3×11                 | 278   | 0.35                         | 1.4           |
|                         | 82                        | 8×11.5                 | 525   | 0.22                         | 0.88          |
|                         | 100                       | 8×16                   | 688   | 0.16                         | 0.64          |
|                         | 120                       | 10×12.5                | 725   | 0.15                         | 0.60          |
|                         | 150                       | 8×20                   | 861   | 0.12                         | 0.48          |
|                         | 180                       | 10×16                  | 998   | 0.11                         | 0.44          |
|                         | 270                       | 10×20                  | 1200  | 0.078                        | 0.31          |
|                         | 270                       | 12.5×16                | 1200  | 0.082                        | 0.27          |
|                         | 330                       | 10×23                  | 1410  | 0.069                        | 0.28          |
|                         | 390                       | 12.5×20                | 1570  | 0.060                        | 0.19          |
|                         | 470                       | 12.5×25                | 1990  | 0.043                        | 0.14          |
|                         | 560                       | 12.5×30                | 2410  | 0.035                        | 0.13          |
|                         | 560                       | 16×20                  | 2100  | 0.043                        | 0.14          |
|                         | 680                       | 12.5×35                | 2620  | 0.033                        | 0.11          |
|                         | 820                       | 12.5×40                | 2940  | 0.027                        | 0.090         |
|                         | 820                       | 16×25                  | 2730  | 0.032                        | 0.096         |
|                         | 820                       | 18×20                  | 2500  | 0.038                        | 0.10          |
|                         | 1200                      | 16×31.5                | 2990  | 0.024                        | 0.068         |
|                         | 1200                      | 18×25                  | 2800  | 0.031                        | 0.084         |
| 1500                    | 16×35.5                   | 3040                   | 0.021   | 0.057                        |               |
| 1500                    | 18×31.5                   | 3300                   | 0.025   | 0.068                        |               |
| 1800                    | 16×40                     | 3570                   | 0.019   | 0.057                        |               |
| 1800                    | 18×35.5                   | 3570                   | 0.020   | 0.054                        |               |
| 2200                    | 18×40                     | 3670                   | 0.018   | 0.049                        |               |
| 80<br>(1K)              | 12                        | 5×11                   | 163   | 1.4                          | 5.6           |
|                         | 33                        | 6.3×11                 | 267   | 0.57                         | 2.3           |
|                         | 56                        | 8×11.5                 | 462   | 0.36                         | 1.4           |
|                         | 68                        | 8×16                   | 585   | 0.25                         | 1.0           |
|                         | 82                        | 10×12.5                | 624   | 0.23                         | 0.96          |
|                         | 100                       | 8×20                   | 735   | 0.19                         | 0.76          |
|                         | 120                       | 10×16                  | 780   | 0.17                         | 0.72          |
|                         | 180                       | 10×20                  | 1040  | 0.12                         | 0.52          |
|                         | 180                       | 12.5×16                | 975   | 0.13                         | 0.43          |
|                         | 220                       | 10×23                  | 1170  | 0.11                         | 0.47          |
|                         | 270                       | 12.5×20                | 1430  | 0.085                        | 0.31          |
|                         | 330                       | 12.5×25                | 1620  | 0.060                        | 0.23          |
|                         | 390                       | 12.5×30                | 1950  | 0.051                        | 0.21          |
|                         | 390                       | 16×20                  | 1750  | 0.058                        | 0.21          |
|                         | 470                       | 12.5×35                | 2140  | 0.043                        | 0.17          |
|                         | 560                       | 12.5×40                | 2340  | 0.036                        | 0.15          |
|                         | 560                       | 16×25                  | 2210  | 0.044                        | 0.16          |
|                         | 560                       | 18×20                  | 1950  | 0.054                        | 0.18          |
|                         | 680                       | 16×31.5                | 2400  | 0.033                        | 0.12          |
|                         | 820                       | 16×35.5                | 2600  | 0.029                        | 0.10          |
| 820                     | 18×25                     | 2270                   | 0.038   | 0.13                         |               |
| 1000                    | 16×40                     | 2860                   | 0.027   | 0.090                        |               |
| 1000                    | 18×31.5                   | 2470                   | 0.031   | 0.11                         |               |
| 1200                    | 18×35.5                   | 2860                   | 0.027   | 0.084                        |               |
| 1500                    | 18×40                     | 3510                   | 0.026   | 0.076                        |               |

| Rated Voltage<br>(V·DC) | 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 |
| 100<br>(2A)             | 8.2                       | 5×11                   | 163   | 1.4                          | 5.6           |
|                         | 18                        | 6.3×11                 | 267   | 0.57                         | 2.3           |
|                         | 33                        | 8×11.5                 | 462   | 0.36                         | 1.4           |
|                         | 47                        | 8×16                   | 585   | 0.25                         | 1.0           |
|                         | 56                        | 10×12.5                | 624   | 0.23                         | 0.96          |
|                         | 68                        | 8×20                   | 735   | 0.19                         | 0.76          |
|                         | 82                        | 10×16                  | 780   | 0.17                         | 0.72          |
|                         | 100                       | 10×20                  | 1040  | 0.12                         | 0.52          |
|                         | 100                       | 12.5×16                | 975   | 0.13                         | 0.43          |
|                         | 120                       | 10×23                  | 1170  | 0.11                         | 0.47          |
|                         | 150                       | 12.5×20                | 1430  | 0.085                        | 0.31          |
|                         | 220                       | 12.5×25                | 1620  | 0.060                        | 0.23          |
|                         | 270                       | 12.5×30                | 1950  | 0.051                        | 0.21          |
|                         | 270                       | 16×20                  | 1750  | 0.058                        | 0.21          |
|                         | 330                       | 12.5×35                | 2140  | 0.043                        | 0.17          |
|                         | 390                       | 12.5×40                | 2340  | 0.036                        | 0.15          |
|                         | 390                       | 16×25                  | 2210  | 0.044                        | 0.16          |
|                         | 390                       | 18×20                  | 1950  | 0.054                        | 0.18          |
|                         | 470                       | 16×31.5                | 2400  | 0.033                        | 0.12          |
|                         | 470                       | 18×25                  | 2270  | 0.038                        | 0.13          |
|                         | 560                       | 16×35.5                | 2600  | 0.029                        | 0.10          |
|                         | 560                       | 18×31.5                | 2470  | 0.031                        | 0.11          |
|                         | 680                       | 16×40                  | 2860  | 0.027                        | 0.090         |
|                         | 680                       | 18×35.5                | 2860  | 0.027                        | 0.084         |
|                         | 820                       | 18×40                  | 3510  | 0.026                        | 0.076         |