

ZLJ SERIES

UPGRADE

105°C High Ripple Current, Long Life, Low Impedance

*Load Life : 105°C 6000~10000 hours.

RoHS compliance



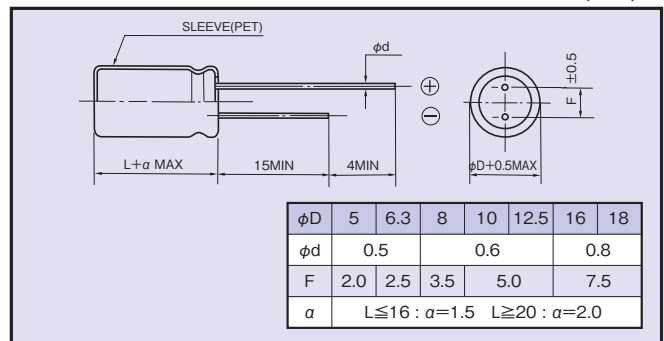
◆SPECIFICATIONS

| Items | Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---------------------|---|----------------|------|------|--------|----------|-----------|--------------------|--|---------------|------------------|------|------|--------|------|------|------|-----------------|------------------------------------|---------|------|------------------|------|-----------|------|-------|------|---|---|-------------------|-------|--|--|--|--|---------|--|--|--|
| Category Temperature Range | -40~+105°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 6.3~100Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current(MAX) | I=0.01CV or 3µA whichever is greater.(After 2 minutes) I=Leakage Current(µA) C=Capacitance(µF) V=Rated Voltage(Vdc) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor(MAX) (tanδ) | <table border="1"> <tr> <td>Rated Voltage (Vdc)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>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 (Vdc) | 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 (Vdc) | 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 applying rated voltage with rated ripple current for specified time at 105°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td rowspan="2">Capacitance Change</td> <td rowspan="2">Within ±25% of the initial value. (6.3Vdc, 10Vdc:±30%)</td> <td colspan="3">Life Time(hrs)</td> </tr> <tr> <td>6.3Vdc</td> <td>10~50Vdc</td> <td>63~100Vdc</td> </tr> <tr> <td rowspan="2">Dissipation Factor</td> <td rowspan="2">Not more than 200% of the specified value.</td> <td>φD≤6.3</td> <td>6000</td> <td>7000</td> <td>6000</td> </tr> <tr> <td>8×11.5</td> <td>8000</td> <td>9000</td> <td>8000</td> </tr> <tr> <td rowspan="2">Leakage Current</td> <td rowspan="2">Not more than the specified value.</td> <td>10×12.5</td> <td>9000</td> <td>9000</td> <td>9000</td> </tr> <tr> <td>8×16,8×20</td> <td>9000</td> <td>10000</td> <td>9000</td> </tr> <tr> <td></td> <td></td> <td>10×16,10×20,10×25</td> <td colspan="3">10000</td> </tr> <tr> <td></td> <td></td> <td>φD≥12.5</td> <td colspan="3"></td> </tr> </table> | Capacitance Change | Within ±25% of the initial value. (6.3Vdc, 10Vdc:±30%) | Life Time(hrs) | | | 6.3Vdc | 10~50Vdc | 63~100Vdc | Dissipation Factor | Not more than 200% of the specified value. | φD≤6.3 | 6000 | 7000 | 6000 | 8×11.5 | 8000 | 9000 | 8000 | Leakage Current | Not more than the specified value. | 10×12.5 | 9000 | 9000 | 9000 | 8×16,8×20 | 9000 | 10000 | 9000 | | | 10×16,10×20,10×25 | 10000 | | | | | φD≥12.5 | | | |
| Capacitance Change | Within ±25% of the initial value. (6.3Vdc, 10Vdc:±30%) | | | Life Time(hrs) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 6.3Vdc | 10~50Vdc | 63~100Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor | Not more than 200% of the specified value. | φD≤6.3 | 6000 | 7000 | 6000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 8×11.5 | 8000 | 9000 | 8000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | Not more than the specified value. | 10×12.5 | 9000 | 9000 | 9000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 8×16,8×20 | 9000 | 10000 | 9000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 10×16,10×20,10×25 | 10000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | φD≥12.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Temperature Stability Impedance Ratio(MAX) | <table border="1"> <tr> <td>Rated Voltage (Vdc)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>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 (Vdc) | 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 (Vdc) | 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 (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



◆OPTION

| | Code |
|------------|-------|
| PET Sleeve | Blank |

◆PART NUMBER



◆STANDARD SIZE

| Rated Voltage (Vdc) | Capacitance (μF) | Size φD×L(mm) | Rated ripple current (mA r.m.s./105°C, 100kHz) | Impedance (Ω MAX) | | Rated Voltage (Vdc) | Capacitance (μF) | Size φD×L(mm) | Rated ripple current (mA r.m.s./105°C, 100kHz) | Impedance (Ω MAX) | |
|---------------------|------------------|---------------|--|-------------------|---------------|---------------------|------------------|---------------|--|-------------------|---------------|
| | | | | 20°C, 100kHz | -10°C, 100kHz | | | | | 20°C, 100kHz | -10°C, 100kHz |
| 6.3 | 220 | 5×11 | 345 | 0.4 | 1.2 | 35 | 47 | 5×11 | 450 | 0.4 | 1.2 |
| | 470 | 6.3×11 | 540 | 0.17 | 0.51 | | 100 | 6.3×11 | 700 | 0.17 | 0.51 |
| | 820 | 8×11.5 | 945 | 0.075 | 0.23 | | 180 | 8×11.5 | 1200 | 0.075 | 0.23 |
| | 1000 | 8×16 | 1250 | 0.059 | 0.18 | | 220 | 8×16 | 1600 | 0.059 | 0.18 |
| | 1200 | 10×12.5 | 1330 | 0.053 | 0.16 | | 270 | 8×16 | 1600 | 0.059 | 0.18 |
| | 1500 | 8×20 | 1500 | 0.041 | 0.13 | | 270 | 10×12.5 | 1700 | 0.053 | 0.16 |
| | 1800 | 10×16 | 1760 | 0.038 | 0.12 | | 330 | 8×20 | 1960 | 0.041 | 0.13 |
| | 2700 | 10×20 | 1960 | 0.028 | 0.084 | | 330 | 10×12.5 | 1700 | 0.053 | 0.16 |
| | 3300 | 10×25 | 2250 | 0.024 | 0.072 | | 390 | 8×20 | 1960 | 0.041 | 0.13 |
| | 3900 | 12.5×20 | 2480 | 0.025 | 0.075 | | 390 | 10×16 | 2000 | 0.038 | 0.12 |
| | 4700 | 12.5×25 | 2900 | 0.019 | 0.057 | | 470 | 10×16 | 2000 | 0.038 | 0.12 |
| | 5600 | 12.5×30 | 3450 | 0.018 | 0.054 | | 560 | 10×20 | 2500 | 0.028 | 0.084 |
| | 6800 | 12.5×35 | 3570 | 0.016 | 0.048 | | 680 | 10×25 | 2900 | 0.024 | 0.072 |
| | 6800 | 16×20 | 3250 | 0.021 | 0.063 | | 820 | 12.5×20 | 2600 | 0.025 | 0.075 |
| 8200 | 16×25 | 3630 | 0.017 | 0.051 | 1000 | 12.5×20 | 2600 | 0.025 | 0.075 | | |
| 10 | 150 | 5×11 | 450 | 0.4 | 1.2 | 1200 | 12.5×25 | 3200 | 0.019 | 0.057 | |
| | 330 | 6.3×11 | 700 | 0.17 | 0.51 | 1500 | 12.5×30 | 3660 | 0.018 | 0.054 | |
| | 560 | 8×11.5 | 1200 | 0.075 | 0.23 | 1500 | 16×20 | 3330 | 0.021 | 0.063 | |
| | 680 | 8×16 | 1600 | 0.059 | 0.18 | 1800 | 12.5×35 | 4120 | 0.016 | 0.048 | |
| | 820 | 10×12.5 | 1700 | 0.053 | 0.16 | 1800 | 16×25 | 3810 | 0.017 | 0.051 | |
| | 1000 | 8×20 | 1960 | 0.041 | 0.13 | 50 | 27 | 5×11 | 310 | 0.48 | 1.5 |
| | 1200 | 10×16 | 2000 | 0.038 | 0.12 | | 56 | 6.3×11 | 500 | 0.22 | 0.66 |
| | 1800 | 10×20 | 2500 | 0.028 | 0.084 | | 100 | 8×11.5 | 950 | 0.12 | 0.36 |
| | 2200 | 10×25 | 2900 | 0.024 | 0.072 | | 120 | 8×11.5 | 1300 | 0.11 | 0.33 |
| | 2700 | 12.5×20 | 2600 | 0.025 | 0.075 | | 120 | 8×16 | 1230 | 0.082 | 0.25 |
| | 3300 | 12.5×25 | 3200 | 0.019 | 0.057 | | 150 | 10×12.5 | 1280 | 0.073 | 0.22 |
| | 4700 | 12.5×30 | 3660 | 0.018 | 0.054 | | 180 | 8×16 | 1700 | 0.081 | 0.24 |
| | 4700 | 16×20 | 3330 | 0.021 | 0.063 | | 180 | 8×20 | 1580 | 0.058 | 0.18 |
| | 5600 | 12.5×35 | 4120 | 0.016 | 0.048 | | 220 | 10×12.5 | 1700 | 0.071 | 0.21 |
| 5600 | 16×25 | 3810 | 0.017 | 0.051 | 220 | | 10×16 | 1650 | 0.053 | 0.16 | |
| 16 | 120 | 5×11 | 450 | 0.4 | 1.2 | | 270 | 8×20 | 2100 | 0.058 | 0.17 |
| | 270 | 6.3×11 | 700 | 0.17 | 0.51 | | 330 | 10×16 | 2100 | 0.052 | 0.16 |
| | 470 | 8×11.5 | 1200 | 0.075 | 0.23 | | 330 | 10×20 | 2060 | 0.038 | 0.12 |
| | 560 | 8×16 | 1600 | 0.059 | 0.18 | | 390 | 10×25 | 2420 | 0.032 | 0.1 |
| | 680 | 8×16 | 1600 | 0.059 | 0.18 | 470 | 10×20 | 2500 | 0.037 | 0.11 | |
| | 680 | 10×12.5 | 1700 | 0.053 | 0.16 | 470 | 12.5×16 | 2200 | 0.04 | 0.12 | |
| | 820 | 8×20 | 1960 | 0.041 | 0.13 | 470 | 12.5×20 | 2300 | 0.032 | 0.1 | |
| | 1000 | 8×20 | 1960 | 0.041 | 0.13 | 560 | 10×25 | 2900 | 0.031 | 0.093 | |
| | 1000 | 10×16 | 2000 | 0.038 | 0.12 | 680 | 12.5×20 | 2700 | 0.029 | 0.087 | |
| | 1500 | 10×20 | 2500 | 0.028 | 0.084 | 680 | 12.5×25 | 2800 | 0.025 | 0.08 | |
| | 1800 | 10×25 | 2900 | 0.024 | 0.072 | 820 | 12.5×30 | 3370 | 0.023 | 0.074 | |
| | 2200 | 12.5×20 | 2600 | 0.025 | 0.075 | 820 | 16×20 | 3070 | 0.026 | 0.084 | |
| | 2700 | 12.5×25 | 3200 | 0.019 | 0.057 | 1000 | 12.5×25 | 3000 | 0.022 | 0.066 | |
| | 3300 | 12.5×30 | 3660 | 0.018 | 0.054 | 1000 | 12.5×30 | 3500 | 0.02 | 0.06 | |
| 3300 | 16×20 | 3330 | 0.021 | 0.063 | 1000 | 12.5×35 | 3810 | 0.021 | 0.067 | | |
| 3900 | 12.5×35 | 4120 | 0.016 | 0.048 | 1000 | 16×25 | 3510 | 0.022 | 0.07 | | |
| 4700 | 16×25 | 3810 | 0.017 | 0.051 | 1200 | 12.5×35 | 4000 | 0.017 | 0.051 | | |
| 25 | 68 | 5×11 | 450 | 0.4 | 1.2 | 1200 | 16×20 | 3100 | 0.023 | 0.069 | |
| | 150 | 6.3×11 | 700 | 0.17 | 0.51 | 1500 | 12.5×40 | 4500 | 0.019 | 0.057 | |
| | 330 | 8×11.5 | 1200 | 0.075 | 0.23 | 1500 | 16×25 | 3600 | 0.018 | 0.054 | |
| | 390 | 8×16 | 1600 | 0.059 | 0.18 | 1500 | 18×20 | 3200 | 0.029 | 0.087 | |
| | 470 | 10×12.5 | 1700 | 0.053 | 0.16 | 2200 | 16×31.5 | 4100 | 0.018 | 0.054 | |
| | 560 | 8×20 | 1960 | 0.041 | 0.13 | 2200 | 18×25 | 3700 | 0.022 | 0.066 | |
| | 680 | 10×16 | 2000 | 0.038 | 0.12 | 2700 | 16×35.5 | 4400 | 0.016 | 0.048 | |
| | 1000 | 10×20 | 2500 | 0.028 | 0.084 | 2700 | 16×40 | 4800 | 0.014 | 0.042 | |
| | 1200 | 10×25 | 2900 | 0.024 | 0.072 | 2700 | 18×31.5 | 4200 | 0.019 | 0.057 | |
| | 1500 | 12.5×20 | 2600 | 0.025 | 0.075 | 3300 | 18×35.5 | 4600 | 0.016 | 0.048 | |
| | 1800 | 12.5×25 | 3200 | 0.019 | 0.057 | 3900 | 18×40 | 5000 | 0.014 | 0.042 | |
| | 2200 | 12.5×30 | 3660 | 0.018 | 0.054 | | | | | | |
| | 2200 | 16×20 | 3330 | 0.021 | 0.063 | | | | | | |
| | 2700 | 12.5×35 | 4120 | 0.016 | 0.048 | | | | | | |
| 3300 | 16×25 | 3810 | 0.017 | 0.051 | | | | | | | |

◆STANDARD SIZE

| Rated Voltage (Vdc) | Capacitance (μF) | Size φD×L(mm) | Rated ripple current (mA r.m.s./105°C, 100kHz) | Impedance (Ω MAX) | | |
|---------------------|------------------|---------------|--|-------------------|---------------|-----|
| | | | | 20°C, 100kHz | -10°C, 100kHz | |
| 63 | 18 | 5×11 | 240 | 0.71 | 3.2 | |
| | 47 | 6.3×11 | 420 | 0.28 | 1.3 | |
| | 82 | 8×11.5 | 720 | 0.18 | 0.79 | |
| | 100 | 8×11.5 | 1000 | 0.13 | 0.39 | |
| | 100 | 8×16 | 990 | 0.13 | 0.58 | |
| | 120 | 8×16 | 1300 | 0.095 | 0.29 | |
| | 120 | 10×12.5 | 990 | 0.11 | 0.44 | |
| | 150 | 8×20 | 1200 | 0.096 | 0.43 | |
| | 150 | 10×12.5 | 1300 | 0.08 | 0.24 | |
| | 180 | 8×20 | 1600 | 0.069 | 0.21 | |
| | 180 | 10×16 | 1200 | 0.076 | 0.31 | |
| | 220 | 10×16 | 1700 | 0.058 | 0.17 | |
| | 270 | 10×20 | 1570 | 0.056 | 0.23 | |
| | 270 | 12.5×16 | 1570 | 0.072 | 0.27 | |
| | 330 | 10×20 | 2000 | 0.042 | 0.13 | |
| | 330 | 10×25 | 1990 | 0.046 | 0.19 | |
| | 330 | 12.5×16 | 1900 | 0.045 | 0.14 | |
| | 390 | 10×25 | 2400 | 0.035 | 0.11 | |
| | 390 | 12.5×20 | 1990 | 0.041 | 0.13 | |
| | 470 | 12.5×20 | 2400 | 0.033 | 0.099 | |
| | 470 | 12.5×25 | 2460 | 0.031 | 0.093 | |
| | 560 | 12.5×30 | 2760 | 0.028 | 0.084 | |
| | 560 | 16×20 | 2380 | 0.032 | 0.096 | |
| | 680 | 12.5×25 | 2800 | 0.025 | 0.075 | |
| | 680 | 12.5×35 | 3040 | 0.024 | 0.072 | |
| | 820 | 12.5×30 | 3200 | 0.022 | 0.066 | |
| | 820 | 16×20 | 2900 | 0.025 | 0.075 | |
| | 820 | 16×25 | 2890 | 0.025 | 0.075 | |
| 1000 | 12.5×35 | 3500 | 0.018 | 0.054 | | |
| 1000 | 16×25 | 3200 | 0.02 | 0.06 | | |
| 1200 | 12.5×40 | 3800 | 0.021 | 0.063 | | |
| 1200 | 18×20 | 3000 | 0.032 | 0.096 | | |
| 1500 | 16×31.5 | 3500 | 0.02 | 0.06 | | |
| 1500 | 18×25 | 3200 | 0.024 | 0.072 | | |
| 1800 | 16×35.5 | 3800 | 0.017 | 0.051 | | |
| 1800 | 18×31.5 | 3700 | 0.02 | 0.06 | | |
| 2200 | 16×40 | 4100 | 0.015 | 0.045 | | |
| 2200 | 18×35.5 | 3900 | 0.017 | 0.051 | | |
| 2700 | 18×40 | 4300 | 0.015 | 0.045 | | |
| 80 | 12 | 5×11 | 220 | 1.2 | 5.4 | |
| | 27 | 6.3×11 | 370 | 0.46 | 2.1 | |
| | 47 | 8×11.5 | 620 | 0.29 | 1.3 | |
| | 56 | 8×16 | 780 | 0.2 | 0.9 | |
| | 68 | 10×12.5 | 780 | 0.17 | 0.66 | |
| | 82 | 8×20 | 1040 | 0.16 | 0.66 | |
| | 100 | 10×16 | 1040 | 0.11 | 0.47 | |
| | 150 | 10×20 | 1430 | 0.084 | 0.34 | |
| | 150 | 12.5×16 | 1430 | 0.11 | 0.34 | |
| | 180 | 10×25 | 1620 | 0.069 | 0.28 | |
| | 220 | 12.5×20 | 1750 | 0.062 | 0.18 | |
| | 270 | 12.5×25 | 2210 | 0.047 | 0.14 | |
| | 330 | 12.5×30 | 2400 | 0.042 | 0.13 | |
| | 330 | 16×20 | 1950 | 0.048 | 0.15 | |
| | 390 | 12.5×35 | 2600 | 0.036 | 0.11 | |
| | 470 | 12.5×40 | 2860 | 0.032 | 0.095 | |
| | 470 | 16×25 | 2430 | 0.038 | 0.12 | |
| | 470 | 18×20 | 2270 | 0.045 | 0.14 | |
| | 560 | 16×31.5 | 2640 | 0.032 | 0.095 | |
| | 680 | 16×35.5 | 2860 | 0.029 | 0.086 | |
| | 680 | 18×25 | 2500 | 0.036 | 0.11 | |
| | 820 | 16×40 | 3510 | 0.027 | 0.081 | |
| | 820 | 18×31.5 | 2860 | 0.03 | 0.09 | |
| | 1000 | 18×35.5 | 3510 | 0.027 | 0.081 | |
| | 1200 | 18×40 | 3860 | 0.026 | 0.076 | |
| | 100 | 8.2 | 5×11 | 220 | 1.2 | 5.4 |
| | | 18 | 6.3×11 | 370 | 0.46 | 2.1 |
| | | 33 | 8×11.5 | 620 | 0.29 | 1.3 |
| 47 | | 8×16 | 780 | 0.2 | 0.9 | |
| 56 | | 10×12.5 | 780 | 0.17 | 0.66 | |
| 68 | | 8×20 | 1040 | 0.16 | 0.66 | |
| 82 | | 10×16 | 1040 | 0.11 | 0.47 | |
| 100 | | 10×20 | 1430 | 0.084 | 0.34 | |
| 100 | | 12.5×16 | 1430 | 0.11 | 0.34 | |
| 120 | | 10×25 | 1620 | 0.069 | 0.28 | |
| 150 | | 12.5×20 | 1750 | 0.062 | 0.18 | |
| 220 | | 12.5×25 | 2210 | 0.047 | 0.14 | |
| 270 | | 12.5×30 | 2400 | 0.042 | 0.13 | |
| 270 | | 16×20 | 1950 | 0.048 | 0.15 | |
| 330 | | 12.5×35 | 2600 | 0.036 | 0.11 | |
| 390 | | 12.5×40 | 2860 | 0.032 | 0.095 | |
| 390 | | 16×25 | 2430 | 0.038 | 0.12 | |
| 390 | | 18×20 | 2270 | 0.045 | 0.14 | |
| 470 | | 16×31.5 | 2640 | 0.032 | 0.095 | |
| 470 | | 18×25 | 2500 | 0.036 | 0.11 | |
| 560 | | 16×35.5 | 2860 | 0.029 | 0.086 | |
| 560 | | 18×31.5 | 2860 | 0.03 | 0.09 | |
| 680 | | 16×40 | 3510 | 0.027 | 0.081 | |
| 680 | | 18×35.5 | 3510 | 0.027 | 0.081 | |
| 820 | | 18×40 | 3860 | 0.026 | 0.076 | |

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[B41022A5686M6](#) [ESRG250ELL101MH09D](#) [EKMA160EC3101MF07D](#) [RJB-10V471MG3#](#) [ESMG160ETD221MF11D](#)
[EKZH160ETD152MJ20S](#) [RJH-35V122MJ6#](#) [EGXF630ELL621ML20S](#) [RBD-25V100KE3#N](#) [EKMA350ELL100ME07D](#)
[ESMG160ETD101ME11D](#) [ELXY100ETD102MJ20S](#) [EGXF500ELL561ML15S](#) [EKMG350ETD471MJ16S](#) [35YXA330MEFC10X12.5](#)
[RXW471M1ESA-0815](#) [ELXZ630ELL221MJ25S](#) [ERR1HM1R0D11OT](#) [LPE681M30060FVA](#) [LPL471M22030FVA](#) [HFE221M25030FVA](#)
[LKMD1401H221MF](#) [B41888G6108M000](#) [EKMA160ETD470MF07D](#) [UHW1J102MHD6](#) [EKMG500ETD221MJC5S](#) [LKMK2502W101MF](#)
[LKMD1401H181MF](#) [LKMI2502G820MF](#) [LKMJ2001J122MF](#) [LKML2501C472MF](#) [LKMJ4002C681MF](#) [450MXH330MEFCSN25X45](#)
[450MXK330MA2RFC22X50](#) [63ZLH560MEFCG412.5X30](#) [ELH2DM331O25KT](#) [ELH2DM471P30KT](#)