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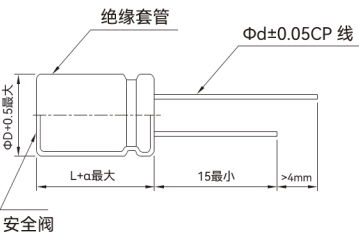
- ◆小体积 耐高频大纹波电流 高频低阻抗 高端电源专用
- ◆105℃环境下6000~8000小时
- ◆符合AEC-Q200 RoHS指令对应



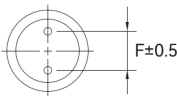
主要技术参数

| 项目                      | 特性                                                                         |      |      |             |      |      |      |        |      |     |
|-------------------------|----------------------------------------------------------------------------|------|------|-------------|------|------|------|--------|------|-----|
| 使用温度范围                  | ≤ 120V -55~+105℃ ; 160~500V -40~+105℃                                      |      |      |             |      |      |      |        |      |     |
| 标称电压范围                  | 10~500V                                                                    |      |      |             |      |      |      |        |      |     |
| 容量允许偏差                  | ±20% (25±2℃ 120Hz)                                                         |      |      |             |      |      |      |        |      |     |
| 漏电流(μA)                 | 10~120WV I≤0.01CV or 3μA 取大者 C:标称容量(μF) V:额定电压(V) 2分钟读数                    |      |      |             |      |      |      |        |      |     |
|                         | 160~500WV I≤0.02CV+10(μA) C:标称容量(μF) V:额定电压(V) 2分钟读数                       |      |      |             |      |      |      |        |      |     |
| 损耗角正切值<br>(25±2℃ 120Hz) | 额定电压(V)                                                                    | 10   | 16   | 25          | 35   | 50   | 63   | 80     | 100  |     |
|                         | tg δ                                                                       | 0.19 | 0.16 | 0.14        | 0.12 | 0.10 | 0.09 | 0.09   | 0.09 |     |
|                         | 额定电压(V)                                                                    | 120  | 160  | 200         | 250  | 350  | 400  | 450    | 500  |     |
|                         | tg δ                                                                       | 0.09 | 0.09 | 0.08        | 0.08 | 0.10 | 0.10 | 0.12   | 0.20 |     |
|                         | 标称容量超过1000μF者, 则每增加1000μF, 损耗角正切值增加0.02                                    |      |      |             |      |      |      |        |      |     |
| 温度特性<br>(120Hz)         | 额定电压(V)                                                                    |      | 10   | 16          | 25   | 35   | 50   | 63     | 80   | 100 |
|                         | 阻抗比Z(-40℃)/Z(20℃)                                                          |      | 6    | 4           | 3    | 3    | 3    | 3      | 3    | 3   |
|                         | 额定电压(V)                                                                    |      | 120  | 160         | 200  | 250  | 350  | 400    | 450  | 500 |
|                         | 阻抗比Z(-40℃)/Z(20℃)                                                          |      | 5    | 5           | 5    | 5    | 7    | 7      | 7    | 8   |
| 耐久性                     | 在105℃烘箱中, 施加含额定纹波电流的额定电压, 持续规定时间后, 置于常温16小时后测试, 测试温度: 25±2℃, 电容器的性能应满足如下要求 |      |      |             |      |      |      |        |      |     |
|                         | 容量变化率                                                                      |      |      | 在初始值的±20%以内 |      |      |      |        |      |     |
|                         | 损耗角正切值                                                                     |      |      | 在规定值的200%以下 |      |      |      |        |      |     |
|                         | 漏电流                                                                        |      |      | 在规定值以下      |      |      |      |        |      |     |
|                         | 负荷寿命                                                                       |      |      | ≤Φ5~Φ6.3    |      |      |      | 6000小时 |      |     |
|                         |                                                                            |      |      | ≥Φ8         |      |      |      | 8000小时 |      |     |
| 高温储存                    | 在105℃下, 储存1000小时, 置于常温16小时后测试, 测试温度25±2℃, 电容器的性能应满足如下要求                    |      |      |             |      |      |      |        |      |     |
|                         | 容量变化率                                                                      |      |      | 在初始值的±20%以内 |      |      |      |        |      |     |
|                         | 损耗角正切值                                                                     |      |      | 在规定值的200%以下 |      |      |      |        |      |     |
|                         | 漏电流                                                                        |      |      | 在规定值的200%以下 |      |      |      |        |      |     |

产品尺寸图 (单位: mm)



备注: ≥Φ6.3 产品有安全阀



|      |       |
|------|-------|
| L=9  | α=1.0 |
| L≤16 | α=1.5 |
| L>16 | α=2.0 |

|   |     |     |     |     |      |     |     |
|---|-----|-----|-----|-----|------|-----|-----|
| D | 5   | 6.3 | 8   | 10  | 12.5 | 16  | 18  |
| d | 0.5 | 0.5 | 0.6 | 0.6 | 0.6  | 0.8 | 0.8 |
| F | 2.0 | 2.5 | 3.5 | 5.0 | 5.0  | 7.5 | 7.5 |

纹波电流补偿系数

①频率修正因子

|        |      |      |      |         |      |
|--------|------|------|------|---------|------|
| 频率(Hz) | 50   | 120  | 1K   | 10K~50K | 100K |
| 修正因子   | 0.40 | 0.50 | 0.80 | 0.90    | 1.00 |

②温度修正系数

|         |     |     |     |      |
|---------|-----|-----|-----|------|
| 环境温度(℃) | 50℃ | 70℃ | 85℃ | 105℃ |
| 修正因子    | 2.1 | 1.8 | 1.4 | 1.0  |



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■ 标准品一览表

| 电压(V)            | 10             |                              |                                    | 16             |                              |                                    | 25             |                              |                                    | 35             |                              |                                    |
|------------------|----------------|------------------------------|------------------------------------|----------------|------------------------------|------------------------------------|----------------|------------------------------|------------------------------------|----------------|------------------------------|------------------------------------|
| 项目<br>容量<br>(μF) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) |
| 10               | 5×9            | 1.10                         | 55                                 | 5×9            | 1.10                         | 70                                 | 5×9            | 1.10                         | 90                                 | 5×9            | 1.60                         | 100                                |
| 15               | 5×9            | 1.10                         | 75                                 | 5×9            | 1.10                         | 90                                 | 5×9            | 1.10                         | 110                                | 5×9            | 1.10                         | 120                                |
| 22               | 5×9            | 0.42                         | 90                                 | 5×9            | 0.42                         | 110                                | 5×9            | 1.10                         | 120                                | 5×9            | 1.10                         | 160                                |
| 33               | 5×9            | 0.42                         | 105                                | 5×9            | 0.42                         | 120                                | 5×9            | 0.42                         | 150                                | 5×9            | 0.42                         | 215                                |
| 39               | 5×9            | 0.42                         | 135                                | 5×9            | 0.42                         | 150                                | 5×9            | 0.42                         | 180                                | 5×9            | 0.42                         | 215                                |
| 47               | 5×9            | 0.28                         | 142                                | 5×9            | 0.28                         | 160                                | 5×9            | 0.28                         | 210                                | 5×11           | 0.38                         | 310                                |
| 56               | 5×9            | 0.28                         | 150                                | 5×9            | 0.28                         | 170                                | 5×9            | 0.28                         | 290                                | 5×11           | 0.38                         | 310                                |
| 68               | 5×9            | 0.28                         | 160                                | 5×9            | 0.28                         | 180                                | 5×11           | 0.25                         | 310                                | 6.3×9          | 0.36                         | 390                                |
| 82               | 5×9            | 0.28                         | 170                                | 5×9            | 0.28                         | 210                                | 5×11           | 0.25                         | 310                                | 6.3×9          | 0.36                         | 390                                |
| 100              | 5×9            | 0.28                         | 180                                | 5×9            | 0.28                         | 290                                | 5×11           | 0.25                         | 310                                | 6.3×11         | 0.17                         | 404                                |
| 100              |                |                              |                                    |                |                              |                                    |                |                              |                                    | 8×9            | 0.17                         | 441                                |
| 120              | 5×9            | 0.28                         | 210                                | 5×11           | 0.25                         | 310                                | 6.3×9          | 0.25                         | 390                                | 8×9            | 0.17                         | 441                                |
| 150              | 5×9            | 0.28                         | 290                                | 6.3×9          | 0.25                         | 390                                | 6.3×11         | 0.17                         | 404                                | 8×11.5         | 0.13                         | 830                                |
| 150              |                |                              |                                    |                |                              |                                    | 8×9            | 0.17                         | 441                                | 10×9           | 0.13                         | 765                                |
| 180              | 5×11           | 0.28                         | 290                                | 6.3×9          | 0.25                         | 390                                | 6.3×11         | 0.17                         | 404                                | 8×11.5         | 0.13                         | 830                                |
| 180              |                |                              |                                    |                |                              |                                    | 8×9            | 0.17                         | 441                                | 10×9           | 0.13                         | 765                                |
| 220              | 5×11           | 0.25                         | 310                                | 6.3×11         | 0.17                         | 404                                | 6.3×11         | 0.17                         | 404                                | 8×11.5         | 0.13                         | 830                                |
| 220              |                |                              |                                    | 8×9            | 0.17                         | 441                                | 8×9            | 0.17                         | 441                                | 10×9           | 0.13                         | 765                                |
| 270              | 6.3×9          | 0.25                         | 390                                | 6.3×11         | 0.17                         | 404                                | 8×11.5         | 0.10                         | 830                                | 8×16           | 0.10                         | 1150                               |
| 270              |                |                              |                                    | 8×9            | 0.17                         | 441                                | 10×9           | 0.10                         | 765                                | 10×12.5        | 0.10                         | 1150                               |
| 330              | 6.3×11         | 0.17                         | 404                                | 6.3×11         | 0.17                         | 650                                | 8×11.5         | 0.10                         | 830                                | 8×16           | 0.10                         | 1170                               |
| 330              | 8×9            | 0.17                         | 441                                | 8×9            | 0.17                         | 765                                | 10×9           | 0.10                         | 765                                | 10×12.5        | 0.10                         | 1150                               |
| 390              | 6.3×11         | 0.17                         | 650                                | 8×11.5         | 0.10                         | 830                                | 8×14           | 0.12                         | 1150                               | 8×20           | 0.0505                       | 1350                               |
| 390              | 8×9            | 0.17                         | 765                                | 10×9           | 0.10                         | 765                                | 10×12.5        | 0.10                         | 1150                               | 10×16          | 0.0505                       | 1550                               |
| 470              | 6.3×11         | 0.17                         | 650                                | 8×11.5         | 0.10                         | 830                                | 8×16           | 0.10                         | 1170                               | 8×20           | 0.0505                       | 1350                               |
| 470              | 8×9            | 0.17                         | 765                                | 10×9           | 0.10                         | 765                                | 10×12.5        | 0.10                         | 1150                               | 10×16          | 0.0505                       | 1550                               |
| 560              | 8×11.5         | 0.10                         | 830                                | 8×11.5         | 0.10                         | 830                                | 8×20           | 0.0505                       | 1350                               | 10×16          | 0.0420                       | 1550                               |
| 560              | 10×9           | 0.10                         | 765                                | 10×9           | 0.10                         | 765                                | 10×12.5        | 0.10                         | 1150                               | 12.5×14        | 0.0500                       | 1808                               |
| 680              | 8×11.5         | 0.10                         | 830                                | 8×16           | 0.10                         | 1125                               | 8×20           | 0.0505                       | 1350                               | 10×20          | 0.0420                       | 1590                               |
| 680              | 10×9           | 0.10                         | 765                                | 10×12.5        | 0.13                         | 1150                               | 10×16          | 0.0505                       | 1550                               | 12.5×16        | 0.0500                       | 1910                               |
| 820              | 8×11.5         | 0.10                         | 830                                | 8×20           | 0.0505                       | 1350                               | 10×16          | 0.0505                       | 1550                               | 10×20          | 0.0420                       | 1590                               |
| 820              |                |                              |                                    | 10×14          | 0.0805                       | 1350                               | 12.5×14        | 0.0600                       | 1808                               | 12.5×16        | 0.0500                       | 1910                               |
| 1000             | 8×16           | 0.10                         | 1125                               | 8×20           | 0.0505                       | 1350                               | 10×20          | 0.0505                       | 1808                               | 12.5×20        | 0.0300                       | 2250                               |
| 1000             | 10×12.5        | 0.10                         | 1150                               | 10×14          | 0.0805                       | 1350                               | 12.5×14        | 0.0600                       | 1808                               |                |                              |                                    |
| 1200             | 8×16           | 0.10                         | 1125                               | 10×16          | 0.0505                       | 1550                               | 10×23          | 0.0500                       | 2050                               | 12.5×20        | 0.0300                       | 2250                               |
| 1200             | 10×14          | 0.0805                       | 1350                               | 12.5×14        | 0.0600                       | 1808                               | 12.5×16        | 0.0500                       | 1910                               |                |                              |                                    |
| 1500             | 8×20           | 0.0805                       | 1350                               | 10×20          | 0.0420                       | 1590                               | 12.5×20        | 0.0300                       | 2250                               | 12.5×25        | 0.0270                       | 2620                               |
| 1500             | 10×14          | 0.0805                       | 1350                               | 12.5×14        | 0.0600                       | 1808                               |                |                              |                                    | 16×20          | 0.0270                       | 2925                               |
| 1800             | 10×20          | 0.0620                       | 1590                               | 10×20          | 0.0420                       | 1590                               | 12.5×20        | 0.0300                       | 2250                               | 12.5×35        | 0.0210                       | 3215                               |



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■ 标准品一览表

| 电压(V)            | 10             |                               |                                     | 16             |                               |                                     | 25             |                               |                                     | 35             |                               |                                     |
|------------------|----------------|-------------------------------|-------------------------------------|----------------|-------------------------------|-------------------------------------|----------------|-------------------------------|-------------------------------------|----------------|-------------------------------|-------------------------------------|
| 项目<br>容量<br>(μF) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2°C) | 纹波电流<br>(mA r.m.s/<br>105°C 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2°C) | 纹波电流<br>(mA r.m.s/<br>105°C 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2°C) | 纹波电流<br>(mA r.m.s/<br>105°C 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2°C) | 纹波电流<br>(mA r.m.s/<br>105°C 100kHz) |
| 1800             | 12.5×14        | 0.0600                        | 1808                                | 12.5×16        | 0.0500                        | 1910                                |                |                               |                                     | 16×20          | 0.0210                        | 3270                                |
| 2200             | 10×20          | 0.0620                        | 1590                                | 10×23          | 0.0300                        | 2050                                | 12.5×25        | 0.0270                        | 2620                                | 12.5×35        | 0.0160                        | 3215                                |
| 2200             | 12.5×14        | 0.0600                        | 1808                                | 12.5×20        | 0.0300                        | 2250                                |                |                               |                                     | 16×25          | 0.0160                        | 3270                                |
| 2700             | 10×20          | 0.0620                        | 1590                                | 12.5×20        | 0.0300                        | 2250                                | 12.5×30        | 0.0250                        | 3110                                | 16×31.5        | 0.0140                        | 3500                                |
| 2700             | 12.5×16        | 0.0500                        | 1910                                |                |                               |                                     |                |                               |                                     | 18×25          | 0.0270                        | 3600                                |
| 3300             | 12.5×20        | 0.0300                        | 2250                                | 12.5×25        | 0.0268                        | 2620                                | 12.5×35        | 0.0250                        | 3215                                | 16×31.5        | 0.0123                        | 3500                                |
| 3300             |                |                               |                                     |                |                               |                                     | 16×25          | 0.0250                        | 3270                                | 18×25          | 0.0135                        | 3600                                |
| 3900             | 12.5×20        | 0.0300                        | 2250                                | 12.5×30        | 0.0255                        | 3110                                | 16×31.5        | 0.0200                        | 3500                                | 16×35.5        | 0.0100                        | 3610                                |
| 3900             |                |                               |                                     | 16×20          | 0.0268                        | 2925                                | 18×25          | 0.0135                        | 3300                                | 18×25          | 0.0135                        | 3600                                |
| 4700             | 12.5×25        | 0.0270                        | 2620                                | 12.5×30        | 0.0255                        | 3110                                | 18×25          | 0.0135                        | 3600                                | 16×40          | 0.0100                        | 3680                                |
| 4700             |                |                               |                                     | 16×25          | 0.0246                        | 3270                                |                |                               |                                     | 18×35.5        | 0.0100                        | 3680                                |
| 5600             | 12.5×25        | 0.0270                        | 2620                                | 12.5×35        | 0.0246                        | 3215                                | 18×31.5        | 0.0120                        | 3610                                |                |                               |                                     |
| 5600             |                |                               |                                     | 16×25          | 0.0246                        | 3270                                |                |                               |                                     |                |                               |                                     |
| 6800             | 12.5×30        | 0.0155                        | 3110                                | 16×31.5        | 0.0213                        | 3500                                | 18×35.5        | 0.0110                        | 3680                                |                |                               |                                     |
| 6800             | 16×25          | 0.0146                        | 3270                                | 18×25          | 0.0235                        | 3600                                |                |                               |                                     |                |                               |                                     |
| 8200             | 12.5×40        | 0.0123                        | 3500                                | 16×35.5        | 0.0220                        | 3610                                | 18×40          | 0.0100                        | 3735                                |                |                               |                                     |
| 8200             | 16×25          | 0.0146                        | 3270                                | 18×31.5        | 0.0220                        | 3610                                |                |                               |                                     |                |                               |                                     |
| 10000            | 16×31.5        | 0.0123                        | 3500                                | 18×35.5        | 0.0210                        | 3680                                |                |                               |                                     |                |                               |                                     |
| 10000            | 18×25          | 0.0135                        | 3600                                |                |                               |                                     |                |                               |                                     |                |                               |                                     |

| 电压(V)            | 50             |                               |                                     | 63             |                               |                                     | 80             |                               |                                     | 100            |                               |                                     |
|------------------|----------------|-------------------------------|-------------------------------------|----------------|-------------------------------|-------------------------------------|----------------|-------------------------------|-------------------------------------|----------------|-------------------------------|-------------------------------------|
| 项目<br>容量<br>(μF) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2°C) | 纹波电流<br>(mA r.m.s/<br>105°C 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2°C) | 纹波电流<br>(mA r.m.s/<br>105°C 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2°C) | 纹波电流<br>(mA r.m.s/<br>105°C 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2°C) | 纹波电流<br>(mA r.m.s/<br>105°C 100kHz) |
| 0.47             | 5×9            | 5.50                          | 20                                  | 5×9            | 3.00                          | 22                                  | 5×9            | 3.00                          | 23                                  | 5×9            | 5.00                          | 23                                  |
| 1.0              | 5×9            | 5.50                          | 30                                  | 5×9            | 3.00                          | 33                                  | 5×9            | 3.00                          | 34                                  | 5×9            | 3.00                          | 34                                  |
| 1.8              | 5×9            | 5.50                          | 36                                  | 5×9            | 3.00                          | 40                                  | 5×9            | 3.00                          | 42                                  | 5×9            | 3.00                          | 42                                  |
| 2.2              | 5×9            | 1.60                          | 38                                  | 5×9            | 3.00                          | 44                                  | 5×9            | 3.00                          | 46                                  | 5×9            | 3.00                          | 46                                  |
| 2.7              | 5×9            | 1.60                          | 46                                  | 5×9            | 3.00                          | 51                                  | 5×9            | 1.50                          | 54                                  | 5×9            | 3.00                          | 54                                  |
| 3.3              | 5×9            | 1.60                          | 53                                  | 5×9            | 3.00                          | 58                                  | 5×9            | 1.50                          | 61                                  | 5×9            | 1.50                          | 61                                  |
| 3.9              | 5×9            | 1.60                          | 70                                  | 5×9            | 3.00                          | 77                                  | 5×9            | 1.50                          | 80                                  | 5×9            | 1.50                          | 80                                  |
| 4.7              | 5×9            | 1.60                          | 88                                  | 5×9            | 3.00                          | 97                                  | 5×9            | 1.50                          | 100                                 | 5×9            | 1.50                          | 100                                 |
| 5.6              | 5×9            | 1.60                          | 90                                  | 5×9            | 1.50                          | 99                                  | 5×9            | 1.50                          | 105                                 | 5×11           | 1.50                          | 105                                 |
| 6.8              | 5×9            | 1.60                          | 93                                  | 5×9            | 1.50                          | 102                                 | 5×9            | 1.50                          | 110                                 | 5×11           | 1.50                          | 110                                 |
| 8.2              | 5×9            | 1.60                          | 97                                  | 5×9            | 1.50                          | 108                                 | 5×9            | 1.50                          | 125                                 | 5×11           | 1.50                          | 125                                 |
| 10               | 5×9            | 1.60                          | 100                                 | 5×9            | 1.50                          | 110                                 | 5×9            | 1.50                          | 135                                 | 5×11           | 1.50                          | 135                                 |
| 12               | 5×9            | 1.60                          | 110                                 | 5×9            | 1.50                          | 120                                 | 5×11           | 1.50                          | 150                                 | 6.3×9          | 1.00                          | 216                                 |



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| 电压(V)            | 50             |                              |                                    | 63             |                              |                                    | 80             |                              |                                    | 100            |                              |                                    |
|------------------|----------------|------------------------------|------------------------------------|----------------|------------------------------|------------------------------------|----------------|------------------------------|------------------------------------|----------------|------------------------------|------------------------------------|
| 项目<br>容量<br>(μF) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) |
| 15               | 5×9            | 1.60                         | 120                                | 5×9            | 1.50                         | 145                                | 5×11           | 1.50                         | 150                                | 6.3×9          | 1.00                         | 216                                |
| 18               | 5×9            | 1.40                         | 130                                | 5×9            | 1.00                         | 155                                | 6.3×9          | 1.00                         | 216                                | 6.3×11         | 0.64                         | 240                                |
| 18               |                |                              |                                    |                |                              |                                    |                |                              |                                    | 8×9            | 0.64                         | 216                                |
| 22               | 5×9            | 1.40                         | 145                                | 5×11           | 1.00                         | 160                                | 6.3×9          | 1.00                         | 216                                | 6.3×11         | 0.64                         | 240                                |
| 22               |                |                              |                                    |                |                              |                                    |                |                              |                                    | 8×9            | 0.64                         | 216                                |
| 27               | 5×11           | 0.38                         | 215                                | 6.3×9          | 0.60                         | 225                                | 6.3×11         | 0.64                         | 240                                | 8×9            | 0.64                         | 369                                |
| 27               |                |                              |                                    |                |                              |                                    | 8×9            | 0.64                         | 260                                |                |                              |                                    |
| 33               | 5×11           | 0.38                         | 215                                | 6.3×9          | 0.60                         | 225                                | 6.3×11         | 0.64                         | 240                                | 8×11.5         | 0.41                         | 410                                |
| 33               |                |                              |                                    |                |                              |                                    | 8×9            | 0.64                         | 260                                | 10×9           | 0.41                         | 369                                |
| 39               | 6.3×9          | 0.38                         | 315                                | 6.3×9          | 0.40                         | 250                                | 8×9            | 0.64                         | 260                                | 8×11.5         | 0.41                         | 410                                |
| 39               |                |                              |                                    |                |                              |                                    |                |                              |                                    | 10×9           | 0.41                         | 369                                |
| 47               | 6.3×9          | 0.36                         | 350                                | 6.3×11         | 0.40                         | 250                                | 8×11.5         | 0.41                         | 410                                | 8×16           | 0.29                         | 510                                |
| 47               |                |                              |                                    | 8×9            | 0.50                         | 260                                | 10×9           | 0.41                         | 450                                | 10×12.5        | 0.29                         | 510                                |
| 56               | 6.3×11         | 0.36                         | 350                                | 8×9            | 0.50                         | 350                                | 8×11.5         | 0.41                         | 410                                | 8×16           | 0.29                         | 510                                |
| 56               | 8×9            | 0.25                         | 450                                |                |                              |                                    | 10×9           | 0.41                         | 450                                | 10×12.5        | 0.26                         | 565                                |
| 68               | 6.3×11         | 0.36                         | 350                                | 8×11.5         | 0.25                         | 480                                | 8×11.5         | 0.41                         | 410                                | 8×20           | 0.22                         | 660                                |
| 68               | 8×9            | 0.25                         | 450                                | 10×9           | 0.25                         | 490                                | 10×9           | 0.41                         | 450                                | 10×14          | 0.22                         | 660                                |
| 82               | 8×9            | 0.25                         | 585                                | 8×11.5         | 0.25                         | 480                                | 8×16           | 0.29                         | 510                                | 8×20           | 0.22                         | 660                                |
| 82               |                |                              |                                    | 10×9           | 0.25                         | 490                                | 10×12.5        | 0.29                         | 565                                | 10×16          | 0.20                         | 710                                |
| 100              | 8×9            | 0.25                         | 585                                | 8×14           | 0.25                         | 550                                | 8×16           | 0.29                         | 510                                | 10×16          | 0.20                         | 710                                |
| 100              |                |                              |                                    | 10×9           | 0.25                         | 500                                | 10×12.5        | 0.26                         | 565                                | 12.5×14        | 0.18                         | 833                                |
| 120              | 8×11.5         | 0.16                         | 630                                | 8×16           | 0.19                         | 620                                | 8×20           | 0.22                         | 660                                | 10×20          | 0.14                         | 950                                |
| 120              | 10×9           | 0.16                         | 650                                | 10×12.5        | 0.18                         | 630                                | 10×14          | 0.20                         | 660                                | 12.5×14        | 0.18                         | 833                                |
| 150              | 8×14           | 0.12                         | 760                                | 8×20           | 0.14                         | 775                                | 10×16          | 0.20                         | 710                                | 10×20          | 0.15                         | 950                                |
| 150              | 10×9           | 0.12                         | 650                                | 10×14          | 0.14                         | 810                                | 12.5×14        | 0.18                         | 833                                | 12.5×16        | 0.15                         | 880                                |
| 180              | 8×16           | 0.12                         | 860                                | 8×20           | 0.14                         | 775                                | 10×20          | 0.14                         | 950                                | 12.5×20        | 0.0959                       | 1290                               |
| 180              | 10×12.5        | 0.12                         | 875                                | 10×16          | 0.14                         | 900                                | 12.5×14        | 0.18                         | 833                                |                |                              |                                    |
| 220              | 8×16           | 0.12                         | 860                                | 10×16          | 0.14                         | 900                                | 10×20          | 0.14                         | 950                                | 12.5×20        | 0.0959                       | 1290                               |
| 220              | 10×12.5        | 0.12                         | 875                                |                |                              |                                    | 12.5×16        | 0.18                         | 1020                               |                |                              |                                    |
| 270              | 8×20           | 0.0768                       | 1080                               | 10×20          | 0.0877                       | 1080                               | 12.5×20        | 0.0959                       | 1290                               | 12.5×25        | 0.0673                       | 1460                               |
| 270              | 10×16          | 0.0768                       | 1250                               | 12.5×14        | 0.0920                       | 1022                               |                |                              |                                    |                |                              |                                    |
| 330              | 10×16          | 0.0768                       | 1250                               | 10×20          | 0.0877                       | 1080                               | 12.5×20        | 0.0959                       | 1290                               | 12.5×30        | 0.0571                       | 1760                               |
| 330              | 12.5×14        | 0.0810                       | 1022                               | 12.5×16        | 0.0920                       | 1080                               |                |                              |                                    | 16×20          | 0.0653                       | 1560                               |
| 390              | 10×20          | 0.0695                       | 1430                               | 12.5×20        | 0.0673                       | 1415                               | 12.5×25        | 0.0673                       | 1460                               | 12.5×35        | 0.0520                       | 1930                               |
| 390              | 12.5×14        | 0.0810                       | 1022                               |                |                              |                                    | 12.5×25        | 0.0673                       | 1460                               | 16×25          | 0.0480                       | 1990                               |
| 470              | 10×20          | 0.0695                       | 1430                               | 12.5×20        | 0.0673                       | 1415                               | 16×20          | 0.0653                       | 1560                               | 16×25          | 0.0480                       | 1990                               |
| 470              | 12.5×16        | 0.0675                       | 1080                               | 12.5×25        | 0.0479                       | 1800                               | 12.5×30        | 0.0571                       | 1760                               | 18×20          | 0.0465                       | 1990                               |
| 560              | 12.5×16        | 0.0675                       | 1598                               |                |                              |                                    | 16×25          | 0.0480                       | 1990                               | 16×31.5        | 0.0368                       | 2160                               |
| 560              |                |                              |                                    |                |                              |                                    |                |                              |                                    | 18×25          | 0.0427                       | 2050                               |





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■ 标准品一览表

| 电压(V)            | 50             |                              |                                    | 63             |                              |                                    | 80             |                              |                                    | 100            |                              |                                    |
|------------------|----------------|------------------------------|------------------------------------|----------------|------------------------------|------------------------------------|----------------|------------------------------|------------------------------------|----------------|------------------------------|------------------------------------|
| 项目<br>容量<br>(μF) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) |
| 680              | 12.5×20        | 0.0600                       | 1850                               | 12.5×30        | 0.0410                       | 2370                               | 12.5×35        | 0.0520                       | 1930                               | 16×35.5        | 0.0326                       | 2340                               |
| 680              |                |                              |                                    | 16×20          | 0.0482                       | 1890                               | 16×25          | 0.0480                       | 1990                               | 18×31.5        | 0.0346                       | 2230                               |
| 820              | 12.5×25        | 0.0625                       | 2170                               | 12.5×35        | 0.0367                       | 2360                               | 16×31.5        | 0.0368                       | 2160                               | 16×40          | 0.0305                       | 2580                               |
| 820              |                |                              |                                    | 16×25          | 0.0385                       | 2460                               | 18×25          | 0.0427                       | 2050                               | 18×35.5        | 0.0305                       | 3160                               |
| 1000             | 12.5×30        | 0.0580                       | 2580                               | 16×25          | 0.0385                       | 2460                               | 16×35.5        | 0.0326                       | 2340                               | 18×40          | 0.0305                       | 3160                               |
| 1000             | 16×20          | 0.0580                       | 2460                               | 18×20          | 0.0426                       | 2550                               | 18×31.5        | 0.0346                       | 2230                               |                |                              |                                    |
| 1200             | 12.5×30        | 0.0580                       | 2580                               | 16×31.5        | 0.0350                       | 2695                               | 16×40          | 0.0305                       | 2580                               |                |                              |                                    |
| 1200             | 16×25          | 0.0455                       | 2710                               | 18×25          | 0.0350                       | 2520                               | 18×31.5        | 0.0246                       | 2970                               |                |                              |                                    |
| 1500             | 12.5×40        | 0.0211                       | 2745                               | 16×31.5        | 0.0350                       | 2695                               | 18×35.5        | 0.0246                       | 3160                               |                |                              |                                    |
| 1500             | 16×25          | 0.0240                       | 2710                               | 18×31.5        | 0.0350                       | 2970                               |                |                              |                                    |                |                              |                                    |
| 1800             | 16×31.5        | 0.0265                       | 2960                               | 16×40          | 0.0350                       | 3215                               | 18×40          | 0.0204                       | 3160                               |                |                              |                                    |
| 1800             | 18×25          | 0.0347                       | 2760                               | 18×31.5        | 0.0350                       | 2970                               |                |                              |                                    |                |                              |                                    |
| 2200             | 18×31.5        | 0.0286                       | 2970                               | 18×35.5        | 0.0350                       | 3215                               |                |                              |                                    |                |                              |                                    |
| 2700             | 18×35.5        | 0.0224                       | 3215                               | 18×40          | 0.0350                       | 3310                               |                |                              |                                    |                |                              |                                    |
| 3300             | 18×40          | 0.0204                       | 3410                               |                |                              |                                    |                |                              |                                    |                |                              |                                    |

| 电压(V)            | 120            |                              |                                    | 160            |                              |                                    | 200            |                              |                                    | 250            |                              |                                    |
|------------------|----------------|------------------------------|------------------------------------|----------------|------------------------------|------------------------------------|----------------|------------------------------|------------------------------------|----------------|------------------------------|------------------------------------|
| 项目<br>容量<br>(μF) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) |
| 0.47             | 5×9            | 6.60                         | 23                                 |                |                              |                                    |                |                              |                                    |                |                              |                                    |
| 1.0              | 5×9            | 6.60                         | 34                                 | 5×11           | 40.00                        | 50                                 | 5×11           | 40.00                        | 50                                 | 6.3×9          | 30.00                        | 95                                 |
| 1.2              | 5×9            | 6.60                         | 34                                 | 5×11           | 40.00                        | 55                                 | 5×11           | 40.00                        | 55                                 | 6.3×9          | 30.00                        | 95                                 |
| 1.5              | 5×9            | 6.60                         | 42                                 | 5×11           | 40.00                        | 60                                 | 5×11           | 40.00                        | 60                                 | 6.3×9          | 30.00                        | 95                                 |
| 1.8              | 5×9            | 6.60                         | 42                                 | 5×11           | 40.00                        | 65                                 | 5×11           | 40.00                        | 66                                 | 6.3×9          | 30.00                        | 95                                 |
| 2.2              | 5×9            | 1.80                         | 46                                 | 5×11           | 40.00                        | 75                                 | 5×11           | 40.00                        | 75                                 | 6.3×9          | 30.00                        | 104                                |
| 2.7              | 5×9            | 1.80                         | 54                                 | 5×11           | 40.00                        | 80                                 | 5×11           | 40.00                        | 80                                 | 6.3×9          | 30.00                        | 113                                |
| 3.3              | 5×9            | 1.80                         | 61                                 | 5×11           | 40.00                        | 90                                 | 6.3×9          | 30.00                        | 95                                 | 6.3×9          | 30.00                        | 113                                |
| 3.9              | 5×9            | 1.80                         | 80                                 | 5×11           | 40.00                        | 90                                 | 6.3×9          | 30.00                        | 104                                | 6.3×9          | 15.00                        | 113                                |
| 4.7              | 5×9            | 1.80                         | 100                                | 6.3×9          | 25.00                        | 104                                | 6.3×11         | 15.00                        | 115                                | 6.3×11         | 15.00                        | 125                                |
| 4.7              |                |                              |                                    |                |                              |                                    | 8×9            | 15.00                        | 135                                | 8×9            | 15.00                        | 135                                |
| 5.6              | 5×11           | 1.80                         | 105                                | 6.3×9          | 25.00                        | 104                                | 6.3×11         | 15.00                        | 115                                | 8×9            | 15.00                        | 135                                |
| 5.6              |                |                              |                                    |                |                              |                                    | 8×9            | 15.00                        | 135                                |                |                              |                                    |
| 6.8              | 5×11           | 1.60                         | 110                                | 6.3×9          | 25.00                        | 122                                | 8×9            | 15.00                        | 135                                | 8×9            | 15.00                        | 135                                |
| 8.2              | 5×11           | 1.60                         | 125                                | 6.3×11         | 22.00                        | 125                                | 8×9            | 15.00                        | 135                                | 8×11.5         | 15.00                        | 150                                |
| 8.2              |                |                              |                                    | 8×9            | 22.00                        | 130                                |                |                              |                                    | 10×9           | 15.00                        | 150                                |
| 10               | 6.3×9          | 1.21                         | 135                                | 8×9            | 22.00                        | 130                                | 8×11.5         | 15.00                        | 150                                | 8×11.5         | 15.00                        | 150                                |



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■ 标准品一览表

| 电压(V)            | 120            |                              |                                    | 160            |                              |                                    | 200            |                              |                                    | 250            |                              |                                    |
|------------------|----------------|------------------------------|------------------------------------|----------------|------------------------------|------------------------------------|----------------|------------------------------|------------------------------------|----------------|------------------------------|------------------------------------|
| 项目<br>容量<br>(μF) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) |
| 10               |                |                              |                                    |                |                              |                                    | 10×9           | 15.00                        | 150                                | 10×9           | 15.00                        | 150                                |
| 12               | 6.3×9          | 1.21                         | 163                                | 8×11.5         | 20.00                        | 135                                | 8×14           | 12.00                        | 220                                | 8×14           | 12.00                        | 220                                |
| 15               | 6.3×11         | 0.83                         | 195                                | 8×11.5         | 16.00                        | 135                                | 8×16           | 8.92                         | 250                                | 8×16           | 8.92                         | 250                                |
| 15               | 8×9            | 0.83                         | 195                                | 10×9           | 16.00                        | 140                                | 10×12.5        | 8.92                         | 260                                | 10×12.5        | 8.92                         | 250                                |
| 18               | 8×9            | 0.83                         | 215                                | 8×11.5         | 16.00                        | 135                                | 8×20           | 6.80                         | 315                                | 8×20           | 6.80                         | 315                                |
| 18               |                |                              |                                    | 10×9           | 16.00                        | 140                                | 10×14          | 6.80                         | 290                                | 10×14          | 6.80                         | 290                                |
| 22               | 8×9            | 0.83                         | 215                                | 8×16           | 8.92                         | 250                                | 8×20           | 6.80                         | 315                                | 8×20           | 6.80                         | 315                                |
| 22               |                |                              |                                    | 10×12.5        | 8.92                         | 250                                | 10×14          | 6.80                         | 290                                | 10×14          | 6.80                         | 290                                |
| 27               | 8×11.5         | 0.64                         | 369                                |                |                              |                                    |                |                              |                                    |                |                              |                                    |
| 33               | 8×11.5         | 0.50                         | 369                                | 8×20           | 6.80                         | 315                                | 10×20          | 6.60                         | 575                                | 10×20          | 6.60                         | 575                                |
| 33               | 10×9           | 0.50                         | 369                                | 10×12.5        | 6.80                         | 450                                | 12.5×14        | 6.60                         | 670                                | 12.5×14        | 6.00                         | 650                                |
| 39               | 8×14           | 0.41                         | 410                                |                |                              |                                    |                |                              |                                    |                |                              |                                    |
| 39               | 10×12.5        | 0.41                         | 410                                |                |                              |                                    |                |                              |                                    |                |                              |                                    |
| 47               | 8×16           | 0.32                         | 451                                | 10×16          | 6.60                         | 580                                | 12.5×20        | 4.65                         | 870                                | 12.5×20        | 4.65                         | 870                                |
| 47               | 10×12.5        | 0.32                         | 451                                | 12.5×14        | 6.60                         | 650                                |                |                              |                                    |                |                              |                                    |
| 56               | 8×20           | 0.29                         | 510                                | 10×20          | 6.60                         | 600                                | 12.5×20        | 4.65                         | 870                                | 12.5×20        | 4.65                         | 870                                |
| 56               | 10×14          | 0.29                         | 565                                | 12.5×14        | 6.60                         | 670                                |                |                              |                                    |                |                              |                                    |
| 68               | 8×23           | 0.22                         | 660                                | 10×23          | 4.65                         | 670                                | 12.5×25        | 4.31                         | 1150                               | 12.5×25        | 4.31                         | 1150                               |
| 68               | 10×16          | 0.22                         | 660                                | 12.5×16        | 4.65                         | 770                                | 16×20          | 4.31                         | 1200                               | 16×20          | 4.31                         | 1200                               |
| 82               | 10×16          | 0.22                         | 660                                | 10×23          | 4.65                         | 770                                | 12.5×25        | 4.31                         | 1150                               | 12.5×25        | 4.31                         | 1150                               |
| 82               | 12.5×14        | 0.20                         | 710                                | 12.5×20        | 4.65                         | 1040                               | 16×20          | 4.31                         | 1200                               | 16×20          | 4.31                         | 1200                               |
| 100              | 10×20          | 0.20                         | 710                                | 12.5×20        | 4.65                         | 1040                               | 12.5×25        | 4.31                         | 1150                               | 12.5×30        | 3.35                         | 1260                               |
| 100              | 12.5×16        | 0.18                         | 833                                |                |                              |                                    | 16×20          | 4.31                         | 1200                               | 16×25          | 3.05                         | 1350                               |
| 120              | 10×23          | 0.18                         | 850                                | 12.5×25        | 4.09                         | 1260                               | 12.5×30        | 3.05                         | 1440                               | 16×25          | 3.05                         | 1350                               |
| 120              | 12.5×16        | 0.18                         | 833                                | 16×20          | 4.09                         | 1260                               | 16×25          | 3.05                         | 1670                               |                |                              |                                    |
| 150              | 12.5×20        | 0.15                         | 950                                | 12.5×30        | 4.09                         | 1600                               | 16×25          | 3.05                         | 1670                               | 16×31.5        | 2.71                         | 1780                               |
| 150              |                |                              |                                    | 16×25          | 3.92                         | 1670                               |                |                              |                                    | 18×25          | 2.71                         | 1780                               |
| 180              | 12.5×25        | 0.11                         | 1290                               | 12.5×35        | 3.01                         | 1720                               | 16×35.5        | 2.10                         | 2025                               | 16×35.5        | 2.10                         | 2025                               |
| 180              |                |                              |                                    | 16×25          | 3.92                         | 1670                               | 18×25          | 2.71                         | 2025                               | 18×31.5        | 2.10                         | 2025                               |
| 220              | 16×20          | 0.11                         | 1290                               | 16×31.5        | 2.71                         | 2160                               | 18×31.5        | 2.10                         | 2200                               | 18×35.5        | 1.04                         | 2365                               |
| 220              |                |                              |                                    | 18×25          | 2.71                         | 2090                               |                |                              |                                    |                |                              |                                    |
| 270              | 12.5×30        | 0.0859                       | 1460                               |                |                              |                                    |                |                              |                                    |                |                              |                                    |
| 270              | 16×20          | 0.0859                       | 1460                               |                |                              |                                    |                |                              |                                    |                |                              |                                    |
| 330              | 16×25          | 0.0671                       | 1760                               | 18×31.5        | 1.25                         | 2400                               |                |                              |                                    |                |                              |                                    |
| 330              | 18×20          | 0.0671                       | 1560                               |                |                              |                                    |                |                              |                                    |                |                              |                                    |
| 390              | 16×31.5        | 0.0520                       | 1930                               | 18×35.5        | 1.15                         | 2850                               |                |                              |                                    |                |                              |                                    |
| 390              | 18×25          | 0.0520                       | 1990                               |                |                              |                                    |                |                              |                                    |                |                              |                                    |
| 470              | 16×31.5        | 0.0480                       | 1990                               |                |                              |                                    |                |                              |                                    |                |                              |                                    |
| 470              | 18×25          | 0.0480                       | 1990                               |                |                              |                                    |                |                              |                                    |                |                              |                                    |
| 560              | 16×35.5        | 0.0368                       | 2160                               |                |                              |                                    |                |                              |                                    |                |                              |                                    |
| 560              | 18×31.5        | 0.0368                       | 2050                               |                |                              |                                    |                |                              |                                    |                |                              |                                    |
| 680              | 18×35.5        | 0.0326                       | 2340                               |                |                              |                                    |                |                              |                                    |                |                              |                                    |



LK

■ 标准品一览表

| 电压(V)            | 350            |                              |                                    | 400            |                              |                                    | 450            |                              |                                    | 500            |                              |                                    |
|------------------|----------------|------------------------------|------------------------------------|----------------|------------------------------|------------------------------------|----------------|------------------------------|------------------------------------|----------------|------------------------------|------------------------------------|
| 项目<br>容量<br>(μF) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) | 尺寸<br>ΦD×L(mm) | 阻抗<br>(Ωmax/100kHz<br>25±2℃) | 纹波电流<br>(mA r.m.s/<br>105℃ 100kHz) |
| 1.0              | 6.3×9          | 38.00                        | 68                                 | 6.3×9          | 58.00                        | 68                                 | 6.3×9          | 58.00                        | 77                                 | 6.3×11         | 52.00                        | 40                                 |
| 1.2              | 6.3×9          | 38.00                        | 95                                 | 6.3×9          | 38.00                        | 77                                 | 6.3×9          | 55.00                        | 77                                 | 6.3×11         | 52.00                        | 40                                 |
| 1.5              | 6.3×9          | 38.00                        | 95                                 | 6.3×9          | 38.00                        | 77                                 | 6.3×9          | 55.00                        | 85                                 | 6.3×11         | 52.00                        | 40                                 |
| 1.8              | 6.3×9          | 38.00                        | 104                                | 6.3×9          | 33.00                        | 90                                 | 6.3×11         | 55.00                        | 90                                 | 8×9            | 48.00                        | 72                                 |
| 1.8              |                |                              |                                    |                |                              |                                    | 8×9            | 45.00                        | 90                                 |                |                              |                                    |
| 2.2              | 6.3×9          | 33.00                        | 120                                | 6.3×9          | 33.00                        | 90                                 | 8×9            | 45.00                        | 90                                 | 8×11.5         | 45.00                        | 72                                 |
| 2.7              | 6.3×11         | 33.00                        | 120                                | 6.3×11         | 33.00                        | 110                                | 8×9            | 45.00                        | 90                                 | 8×11.5         | 45.00                        | 76                                 |
| 2.7              | 8×9            | 27.00                        | 130                                | 8×9            | 27.00                        | 117                                |                |                              |                                    |                |                              |                                    |
| 3.3              | 6.3×11         | 33.00                        | 120                                | 6.3×12         | 33.00                        | 110                                | 8×11.5         | 25.50                        | 130                                | 8×11.5         | 45.00                        | 76                                 |
| 3.3              | 8×9            | 27.00                        | 130                                | 8×9            | 27.00                        | 117                                | 10×9           | 25.50                        | 130                                |                |                              |                                    |
| 3.9              | 6.3×12         | 33.00                        | 120                                | 6.3×12         | 33.00                        | 110                                | 8×11.5         | 25.50                        | 130                                | 8×14           | 35.00                        | 92                                 |
| 3.9              | 8×9            | 27.00                        | 130                                | 8×9            | 27.00                        | 117                                | 10×9           | 25.50                        | 130                                |                |                              |                                    |
| 4.7              | 6.3×12         | 33.00                        | 120                                | 6.3×12         | 33.00                        | 120                                | 8×11.5         | 25.50                        | 130                                | 8×16           | 29.00                        | 102                                |
| 4.7              | 8×9            | 27.00                        | 130                                | 8×11.5         | 27.00                        | 135                                | 10×9           | 18.00                        | 130                                | 10×12.5        | 22.50                        | 102                                |
| 5.6              | 8×11.5         | 21.00                        | 135                                | 8×14           | 18.00                        | 180                                | 8×16           | 13.50                        | 135                                | 10×14          | 18.00                        | 117                                |
| 5.6              | 10×9           | 21.00                        | 150                                | 10×9           | 18.00                        | 180                                | 10×12.5        | 13.50                        | 180                                |                |                              |                                    |
| 6.8              | 8×11.5         | 21.00                        | 135                                | 8×16           | 13.50                        | 180                                | 8×20           | 9.50                         | 200                                | 10×14          | 18.00                        | 117                                |
| 6.8              | 10×9           | 21.00                        | 150                                | 10×12.5        | 13.50                        | 180                                | 10×12.5        | 13.50                        | 180                                |                |                              |                                    |
| 8.2              | 8×16           | 13.50                        | 180                                | 8×16           | 13.50                        | 180                                | 8×20           | 9.50                         | 200                                | 10×16          | 15.00                        | 152                                |
| 8.2              | 10×12.5        | 13.50                        | 190                                | 10×12.5        | 13.50                        | 180                                | 10×14          | 12.00                        | 205                                |                |                              |                                    |
| 10               | 8×16           | 13.50                        | 180                                | 8×20           | 9.50                         | 250                                | 10×16          | 9.50                         | 205                                | 10×20          | 11.00                        | 216                                |
| 10               | 10×12.5        | 13.50                        | 220                                | 10×14          | 9.50                         | 250                                | 12.5×14        | 9.20                         | 315                                | 12.5×14        | 10.00                        | 234                                |
| 12               | 10×14          | 11.00                        | 240                                | 10×16          | 9.00                         | 280                                | 10×20          | 8.15                         | 300                                | 12.5×16        | 9.50                         | 240                                |
| 15               | 10×16          | 9.50                         | 280                                | 10×20          | 8.15                         | 310                                | 10×20          | 8.15                         | 300                                | 12.5×16        | 9.00                         | 240                                |
| 15               | 12.5×14        | 8.15                         | 530                                | 12.5×14        | 8.15                         | 310                                | 12.5×16        | 8.15                         | 410                                |                |                              |                                    |
| 18               | 10×20          | 8.15                         | 550                                | 10×20          | 8.15                         | 310                                | 12.5×20        | 8.15                         | 410                                | 12.5×20        | 8.00                         | 288                                |
| 18               | 12.5×14        | 8.15                         | 530                                | 12.5×16        | 8.15                         | 330                                |                |                              |                                    |                |                              |                                    |
| 22               | 12.5×16        | 8.15                         | 600                                | 12.5×20        | 8.15                         | 500                                | 12.5×20        | 8.15                         | 410                                | 12.5×25        | 7.00                         | 423                                |
| 33               | 12.5×20        | 8.15                         | 865                                | 12.5×25        | 5.14                         | 670                                | 12.5×25        | 6.50                         | 650                                | 12.5×30        | 6.50                         | 508                                |
| 33               |                |                              |                                    | 16×20          | 4.54                         | 670                                | 16×20          | 4.14                         | 650                                |                |                              |                                    |
| 47               | 12.5×25        | 4.14                         | 960                                | 12.5×30        | 4.14                         | 1035                               | 12.5×35        | 3.50                         | 950                                | 12.5×35        | 5.50                         | 630                                |
| 47               | 16×20          | 4.14                         | 1000                               | 16×25          | 4.14                         | 1035                               | 16×25          | 3.50                         | 950                                | 16×25          | 3.50                         | 630                                |
| 56               | 12.5×25        | 4.14                         | 960                                | 16×25          | 4.14                         | 1035                               | 16×31.5        | 3.50                         | 1100                               | 16×31.5        | 2.50                         | 648                                |
| 56               | 16×20          | 4.14                         | 1000                               | 18×20          | 4.14                         | 1280                               | 18×25          | 3.50                         | 1060                               |                |                              |                                    |
| 68               | 16×25          | 4.05                         | 1150                               | 16×31.5        | 3.50                         | 1315                               | 16×35.5        | 3.05                         | 1240                               | 16×35.5        | 2.30                         | 756                                |
| 68               | 18×20          | 3.50                         | 1330                               | 18×25          | 3.50                         | 1330                               | 18×31.5        | 3.05                         | 1290                               | 18×31.5        | 2.30                         | 756                                |
| 82               | 16×31.5        | 3.50                         | 1400                               | 16×35.5        | 3.05                         | 1720                               | 16×40          | 2.95                         | 1510                               | 18×35.5        | 1.80                         | 990                                |
| 82               | 18×25          | 3.50                         | 1600                               | 18×31.5        | 3.05                         | 1720                               | 18×31.5        | 3.05                         | 1290                               |                |                              |                                    |
| 100              | 16×31.5        | 3.50                         | 2010                               | 18×31.5        | 3.05                         | 2010                               | 18×35.5        | 2.75                         | 1490                               | 18×40          | 1.50                         | 1020                               |
| 100              | 18×25          | 3.50                         | 2010                               |                |                              |                                    |                |                              |                                    |                |                              |                                    |
| 120              | 16×35.5        | 3.05                         | 2080                               | 18×35.5        | 2.05                         | 2250                               | 18×40          | 2.05                         | 1740                               |                |                              |                                    |
| 120              | 18×31.5        | 3.05                         | 2010                               |                |                              |                                    |                |                              |                                    |                |                              |                                    |
| 150              | 18×35.5        | 2.05                         | 2450                               | 18×40          | 2.00                         | 2500                               | 18×45          | 2.00                         | 1950                               |                |                              |                                    |