

GR 系列

特长 / 用途

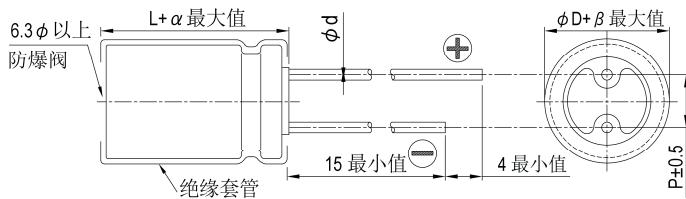
- 105 C、2,000 ~ 5,000小时寿命保证
- 高频低阻品
- 符合RoHS指令



规格表

| 项 目 | 性 能 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|------------------------|--------|--|---------|--------------|--------|---------------|------|--------------|------|-----------------------------|------|------|------|------|------|------|----------|------|------|------|------|------|------|--|-------------|------|------|------|------|------|------|--|---------|------|------|------|------|------|------|
| 工作温度范围 | 6.3 ~ 63V -55 C ~ +105 C | 100V -40 C ~ +105 C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 额定静电容量容许误差值 | ± 20% (120 Hz, 20 C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 漏电流(20 C) | I = 0.01CV 或 3(μA/微安)之中任一较大值以下(2 分钟后) I = 漏电流(μA/微安)、C = 额定静电容量(μF/微法拉)、V = 额定直流工作电压(V/伏特) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 损失角正切值(120 Hz, 20 C) | <table border="1"> <tr> <td>额定电压</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>损失角正切值 (最大值)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> </tr> </table> <p>当额定静电容量大于 1,000 微法拉时, 每增加 1,000 微法拉需加 0.02</p> | | 额定电压 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 损失角正切值 (最大值) | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | | | | | | | | | | | | | | | | | | | | | |
| 额定电压 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 损失角正切值 (最大值) | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 温度特性(120 Hz) | <p>阻抗比不可大于下表所列数值</p> <table border="1"> <tr> <td>额定电压</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>阻抗比 Z(-55 C/-40 C)/Z(+20 C)</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table> | | 额定电压 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 阻抗比 Z(-55 C/-40 C)/Z(+20 C) | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | |
| 额定电压 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 阻抗比 Z(-55 C/-40 C)/Z(+20 C) | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 耐久性 | <table border="1"> <tr> <td>保证寿命时间</td> <td>φD ≤ 8 mm 2,000 小时, φD ≥ 10 mm 5,000 小时</td> </tr> <tr> <td>静电容量变化率</td> <td>≦ 初始值的 ± 20%</td> </tr> <tr> <td>损失角正切值</td> <td>≦ 初始规格值的 200%</td> </tr> <tr> <td>漏电流</td> <td>≦ 初始规格值</td> </tr> </table> <p>* 于 105 C 环境中供给容许纹波电流值与额定电压 2,000 / 5,000 小时后, 待制品回复至 20 C 的环境中进行量测时, 需满足上列要求</p> | | 保证寿命时间 | φD ≤ 8 mm 2,000 小时, φD ≥ 10 mm 5,000 小时 | 静电容量变化率 | ≦ 初始值的 ± 20% | 损失角正切值 | ≦ 初始规格值的 200% | 漏电流 | ≦ 初始规格值 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 保证寿命时间 | φD ≤ 8 mm 2,000 小时, φD ≥ 10 mm 5,000 小时 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 静电容量变化率 | ≦ 初始值的 ± 20% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 损失角正切值 | ≦ 初始规格值的 200% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 漏电流 | ≦ 初始规格值 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 高温无负荷特性 | <table border="1"> <tr> <td>保证寿命时间</td> <td>1,000 小时</td> </tr> <tr> <td>静电容量变化率</td> <td>≦ 初始值的 ± 20%</td> </tr> <tr> <td>损失角正切值</td> <td>≦ 初始规格值的 200%</td> </tr> <tr> <td>漏电流</td> <td>≦ 初始规格值</td> </tr> </table> <p>* 于 105 C 环境中不供给额定电压 1,000 小时后, 待制品回复至 20 C 的环境中进行量测时, 需满足上列要求</p> | | 保证寿命时间 | 1,000 小时 | 静电容量变化率 | ≦ 初始值的 ± 20% | 损失角正切值 | ≦ 初始规格值的 200% | 漏电流 | ≦ 初始规格值 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 保证寿命时间 | 1,000 小时 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 静电容量变化率 | ≦ 初始值的 ± 20% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 损失角正切值 | ≦ 初始规格值的 200% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 漏电流 | ≦ 初始规格值 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 纹波电流与频率修正系数 | <table border="1"> <tr> <td>频率(Hz)</td> <td>60(50)</td> <td>120</td> <td>500</td> <td>1k</td> <td>10k</td> <td>100k</td> </tr> <tr> <td>静电容量(μF/微法拉)</td> <td>≦ 33</td> <td>0.40</td> <td>0.55</td> <td>0.65</td> <td>0.80</td> <td>0.90</td> <td>1.00</td> </tr> <tr> <td></td> <td>39 ~ 330</td> <td>0.60</td> <td>0.70</td> <td>0.80</td> <td>0.90</td> <td>0.95</td> <td>1.00</td> </tr> <tr> <td></td> <td>390 ~ 1,000</td> <td>0.65</td> <td>0.80</td> <td>0.85</td> <td>0.98</td> <td>1.00</td> <td>1.00</td> </tr> <tr> <td></td> <td>1,200 ≧</td> <td>0.80</td> <td>0.90</td> <td>0.95</td> <td>0.98</td> <td>1.00</td> <td>1.00</td> </tr> </table> | | 频率(Hz) | 60(50) | 120 | 500 | 1k | 10k | 100k | 静电容量(μF/微法拉) | ≦ 33 | 0.40 | 0.55 | 0.65 | 0.80 | 0.90 | 1.00 | | 39 ~ 330 | 0.60 | 0.70 | 0.80 | 0.90 | 0.95 | 1.00 | | 390 ~ 1,000 | 0.65 | 0.80 | 0.85 | 0.98 | 1.00 | 1.00 | | 1,200 ≧ | 0.80 | 0.90 | 0.95 | 0.98 | 1.00 | 1.00 |
| 频率(Hz) | 60(50) | 120 | 500 | 1k | 10k | 100k | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 静电容量(μF/微法拉) | ≦ 33 | 0.40 | 0.55 | 0.65 | 0.80 | 0.90 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 39 ~ 330 | 0.60 | 0.70 | 0.80 | 0.90 | 0.95 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 390 ~ 1,000 | 0.65 | 0.80 | 0.85 | 0.98 | 1.00 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1,200 ≧ | 0.80 | 0.90 | 0.95 | 0.98 | 1.00 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

寸法图



制品各项寸法

单位 毫米

| | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 |
|----|--------------------------|-----|-----|-----|------|-----|-----|
| φD | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 |
| P | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| φd | 0.5 | | 0.6 | | | 0.8 | |
| α | L < 20: 1.5, L ≧ 20: 2.0 | | | | | | |
| β | 0.5 | | | | | | |



尺寸 直径(φD)×长度(L), (毫米/mm)
容许纹波电流 毫安/均方根值(mA/rms), 100k 赫兹(Hz), 105 C
阻抗值 欧姆(Ω)/最大值, 100k 赫兹(Hz), 20 C

制品尺寸与容许纹波电流一览表

| 额定电压 V _{oc} 内容 静电容量 (μF/微法拉) | 6.3V (0J) | | | | | 10V (1A) | | | | | 16V (1C) | | | | |
|--|-----------|-------|-------|--------|---------|----------|-------|-------|--------|---------|----------|-------|-------|--------|---------|
| | φD×L | 阻抗值 | | 纹波电流 | | φD×L | 阻抗值 | | 纹波电流 | | φD×L | 阻抗值 | | 纹波电流 | |
| | | 20 C | -10 C | 120 Hz | 100k Hz | | 20 C | -10 C | 120 Hz | 100k Hz | | 20 C | -10 C | 120 Hz | 100k Hz |
| 33 | | | | | | | | | | | 5×11 | 1.30 | 3.90 | 108 | 154 |
| 39 | | | | | | | | | | | 5×11 | 1.30 | 3.90 | 108 | 154 |
| 47 | | | | | | 5×11 | 2.10 | 5.50 | 78 | 111 | 6.3×11 | 0.60 | 1.80 | 182 | 260 |
| 56 | | | | | | 5×11 | 1.90 | 4.80 | 85 | 121 | 6.3×11 | 0.60 | 1.80 | 182 | 260 |
| 68 | | | | | | 5×11 | 1.30 | 3.90 | 108 | 154 | 6.3×11 | 0.60 | 1.80 | 182 | 260 |
| 100 | 5×11 | 1.30 | 3.90 | 108 | 154 | 6.3×11 | 0.60 | 1.80 | 182 | 260 | 6.3×11 | 0.60 | 1.80 | 182 | 260 |
| 220 | 6.3×11 | 0.60 | 1.80 | 182 | 260 | 8×11.5 | 0.33 | 0.99 | 280 | 400 | 8×11.5 | 0.33 | 0.99 | 320 | 400 |
| 330 | 8×11.5 | 0.33 | 0.88 | 280 | 400 | 8×11.5 | 0.33 | 0.99 | 280 | 400 | 10×12.5 | 0.25 | 0.75 | 360 | 510 |
| 390 | 8×11.5 | 0.33 | 0.88 | 320 | 400 | 10×12.5 | 0.27 | 0.75 | 410 | 510 | 10×16 | 0.19 | 0.57 | 510 | 635 |
| 470 | 10×12.5 | 0.25 | 0.75 | 410 | 510 | 10×12.5 | 0.25 | 0.75 | 410 | 510 | 10×16 | 0.19 | 0.57 | 510 | 635 |
| 560 | 10×12.5 | 0.25 | 0.75 | 410 | 510 | 10×16 | 0.19 | 0.57 | 510 | 635 | 10×20 | 0.14 | 0.42 | 775 | 860 |
| 680 | 10×16 | 0.19 | 0.57 | 510 | 635 | 10×16 | 0.19 | 0.57 | 510 | 635 | 10×20 | 0.14 | 0.42 | 775 | 860 |
| 1,000 | 10×20 | 0.14 | 0.42 | 690 | 860 | 10×20 | 0.14 | 0.37 | 690 | 860 | 12.5×20 | 0.085 | 0.26 | 1,000 | 1,250 |
| 1,200 | 10×20 | 0.14 | 0.42 | 775 | 860 | 10×25 | 0.12 | 0.30 | 930 | 1,030 | 12.5×20 | 0.085 | 0.26 | 1,125 | 1,250 |
| 2,200 | 12.5×20 | 0.085 | 0.26 | 1,125 | 1,250 | 12.5×25 | 0.070 | 0.21 | 1,200 | 1,355 | 12.5×25 | 0.070 | 0.21 | 1,200 | 1,355 |
| 3,300 | 12.5×25 | 0.070 | 0.21 | 1,200 | 1,355 | 12.5×25 | 0.070 | 0.21 | 1,200 | 1,355 | 16×31.5 | 0.048 | 0.14 | 1,830 | 2,030 |
| 4,700 | 16×25 | 0.060 | 0.18 | 1,595 | 1,770 | 16×31.5 | 0.048 | 0.14 | 1,830 | 2,030 | 16×35.5 | 0.044 | 0.13 | 2,065 | 2,295 |

| 额定电压 V _{oc} 内容 静电容量 (μF/微法拉) | 25V (1E) | | | | | 35V (1V) | | | | | 50V (1H) | | | | |
|--|----------|-------|-------|--------|--------|----------|-------|-------|--------|--------|----------|-------|-------|--------|--------|
| | φD×L | 阻抗值 | | 纹波电流 | | φD×L | 阻抗值 | | 纹波电流 | | φD×L | 阻抗值 | | 纹波电流 | |
| | | 20 C | -10 C | 120 Hz | 100KHz | | 20 C | -10 C | 120 Hz | 100KHz | | 20 C | -10 C | 120 Hz | 100KHz |
| 2.2 | | | | | | | | | | | 5×11 | 4.0 | 12.0 | 48 | 88 |
| 3.3 | | | | | | | | | | | 5×11 | 3.50 | 11.0 | 52 | 94 |
| 4.7 | | | | | | | | | | | 5×11 | 3.00 | 9.00 | 55 | 100 |
| 6.8 | | | | | | | | | | | 5×11 | 3.00 | 9.00 | 55 | 100 |
| 10 | | | | | | | | | | | 5×11 | 2.00 | 6.00 | 68 | 124 |
| 22 | | | | | | 5×11 | 1.30 | 3.90 | 108 | 154 | 6.3×11 | 0.60 | 1.80 | 143 | 260 |
| 33 | 5×11 | 1.30 | 3.90 | 108 | 154 | 6.3×11 | 0.60 | 1.80 | 182 | 260 | 6.3×11 | 0.60 | 1.80 | 143 | 260 |
| 39 | 6.3×11 | 0.60 | 1.80 | 182 | 260 | 6.3×11 | 0.60 | 1.80 | 182 | 260 | 6.3×11 | 0.60 | 1.80 | 182 | 260 |
| 47 | 6.3×11 | 0.60 | 1.80 | 182 | 260 | 6.3×11 | 0.60 | 1.80 | 182 | 260 | 8×11.5 | 0.33 | 0.99 | 320 | 400 |
| 56 | 6.3×11 | 0.60 | 1.80 | 182 | 260 | 6.3×11 | 0.60 | 1.80 | 182 | 260 | 8×11.5 | 0.33 | 0.99 | 320 | 400 |
| 68 | 6.3×11 | 0.60 | 1.80 | 182 | 260 | 6.3×11 | 0.60 | 1.80 | 182 | 260 | 8×11.5 | 0.33 | 0.99 | 320 | 400 |
| 100 | 8×11.5 | 0.33 | 0.99 | 320 | 400 | 8×11.5 | 0.33 | 0.99 | 320 | 400 | 10×16 | 0.19 | 0.57 | 445 | 635 |
| 220 | 10×12.5 | 0.25 | 0.75 | 360 | 510 | 10×16 | 0.19 | 0.57 | 445 | 635 | 10×25 | 0.12 | 0.30 | 825 | 1,030 |
| 330 | 10×16 | 0.19 | 0.57 | 445 | 635 | 10×20 | 0.12 | 0.42 | 600 | 860 | 12.5×20 | 0.085 | 0.26 | 875 | 1,250 |
| 390 | 10×20 | 0.14 | 0.42 | 775 | 965 | 10×25 | 0.12 | 0.30 | 930 | 1,030 | 12.5×25 | 0.070 | 0.21 | 1,085 | 1,355 |
| 470 | 10×20 | 0.14 | 0.42 | 775 | 965 | 12.5×20 | 0.085 | 0.26 | 1,000 | 1,250 | 12.5×25 | 0.070 | 0.21 | 1,085 | 1,355 |
| 560 | 10×25 | 0.12 | 0.30 | 930 | 1,030 | 12.5×20 | 0.085 | 0.26 | 1,000 | 1,250 | 12.5×25 | 0.070 | 0.21 | 1,085 | 1,355 |
| 680 | 12.5×20 | 0.085 | 0.26 | 1,000 | 1,250 | 12.5×25 | 0.070 | 0.21 | 1,085 | 1,355 | 16×25 | 0.060 | 0.18 | 1,415 | 1,770 |
| 1,000 | 12.5×25 | 0.070 | 0.23 | 1,080 | 1,355 | 12.5×25 | 0.070 | 0.21 | 1,085 | 1,355 | 16×25 | 0.060 | 0.18 | 1,595 | 1,770 |
| 1,200 | 12.5×25 | 0.070 | 0.21 | 1,200 | 1,355 | 12.5×25 | 0.070 | 0.21 | 1,200 | 1,355 | 16×31.5 | 0.048 | 0.14 | 1,830 | 2,030 |
| 2,200 | 16×25 | 0.060 | 0.18 | 1,595 | 1,770 | 16×35.5 | 0.044 | 0.13 | 2,065 | 2,295 | 18×40 | 0.037 | 0.10 | 2,465 | 2,740 |
| 3,300 | 16×35.5 | 0.044 | 0.13 | 2,065 | 2,295 | 18×40 | 0.037 | 0.10 | 2,465 | 2,740 | | | | | |
| 4,700 | 18×40 | 0.037 | 0.10 | 2,465 | 2,740 | | | | | | | | | | |



尺寸 直径(ϕD) \times 长度(L), (毫米/mm)
 容许纹波电流 毫安/均方根值(mA/rms), 100k 赫兹(Hz), 105 C
 阻抗值 欧姆(Ω)/最大值, 100k 赫兹(Hz), 20 C

制品尺寸与容许纹波电流一览表

| 额定电压 V_{oc} 内容 静电容量 (μF /微法拉) | 63V (1J) | | | | | 100V (2A) | | | | |
|--|-------------------|-------|-------|--------|---------|-------------------|-------|-------|--------|---------|
| | $\phi D \times L$ | 阻抗值 | | 纹波电流 | | $\phi D \times L$ | 阻抗值 | | 纹波电流 | |
| | | 20 C | -10 C | 120 Hz | 100k Hz | | 20 C | -10 C | 120 Hz | 100k Hz |
| 2.2 | | | | | | 5 \times 11 | 6.00 | 21.0 | 40 | 72 |
| 3.3 | | | | | | 5 \times 11 | 5.00 | 18.0 | 43 | 78 |
| 4.7 | | | | | | 6.3 \times 11 | 1.20 | 4.20 | 100 | 180 |
| 6.8 | | | | | | 6.3 \times 11 | 1.20 | 4.20 | 100 | 180 |
| 10 | 6.3 \times 11 | 1.20 | 4.20 | 100 | 180 | 8 \times 11.5 | 0.56 | 2.00 | 168 | 305 |
| 22 | 6.3 \times 11 | 1.20 | 4.20 | 100 | 180 | 8 \times 11.5 | 0.56 | 2.00 | 168 | 308 |
| 33 | 8 \times 11.5 | 0.56 | 2.00 | 170 | 305 | 10 \times 12.5 | 0.50 | 1.80 | 210 | 380 |
| 39 | 8 \times 11.5 | 0.56 | 2.00 | 170 | 305 | 10 \times 16 | 0.32 | 1.10 | 350 | 500 |
| 47 | 8 \times 11.5 | 0.56 | 2.00 | 170 | 305 | 10 \times 20 | 0.27 | 0.95 | 435 | 620 |
| 56 | 10 \times 12.5 | 0.50 | 1.80 | 265 | 380 | 10 \times 20 | 0.27 | 0.95 | 435 | 620 |
| 68 | 10 \times 12.5 | 0.50 | 1.80 | 265 | 380 | 10 \times 25 | 0.21 | 0.63 | 530 | 760 |
| 100 | 10 \times 20 | 0.27 | 0.95 | 435 | 620 | 12.5 \times 20 | 0.16 | 0.56 | 625 | 890 |
| 220 | 12.5 \times 20 | 0.094 | 0.24 | 570 | 820 | 16 \times 25 | 0.090 | 0.32 | 1,010 | 1,440 |
| 330 | 12.5 \times 25 | 0.073 | 0.21 | 770 | 1,100 | 16 \times 31.5 | 0.060 | 0.17 | 1,255 | 1,790 |
| 390 | 12.5 \times 25 | 0.073 | 0.21 | 770 | 1,100 | 16 \times 35.5 | 0.056 | 0.14 | 1,650 | 2,065 |
| 470 | 16 \times 25 | 0.060 | 0.18 | 1,420 | 1,770 | | | | | |
| 560 | 16 \times 31.5 | 0.048 | 0.14 | 1,625 | 2,030 | | | | | |
| 680 | 16 \times 31.5 | 0.048 | 0.14 | 1,625 | 2,030 | | | | | |
| 1,000 | 18 \times 35.5 | 0.041 | 0.11 | 1,790 | 2,240 | | | | | |

产品编码说明

GR系列 10V 470微法拉 $\pm 20\%$ 6 $\phi \times 11L$
GR **1A** **471** **M** **0611**
 系列 额定电压 额定静电容量 额定静电容量容许误差值 制品尺寸

| | | | | | | | | | | | |
|------------|----|-----|----|----|----|----|----|----|----|----|-----|
| 额定电压 (W.V) | 4 | 6.3 | 10 | 16 | 20 | 25 | 35 | 50 | 63 | 80 | 100 |
| 电压代码 | 0G | 0J | 1A | 1C | 1D | 1E | 1V | 1H | 1J | 1K | 2A |



| 序号 | 系列 | 规格 | | 容量范围 | 损失角 | 漏电流 | 承制方部品号 | 尺寸 | 最大纹波电流 |
|----|----|-----------|--------------------|----------|-----|-----|--------------|--------------|--------|
| | | WV (V) | Cap. (μ F) | | | | | | |
| 1 | GR | 6.3 | 470 | ± 20 | 22 | 30 | GR0J471M0607 | $\Phi 6*7$ | 210 |
| 2 | GR | 10 | 470 | ± 20 | 19 | 47 | GR1A471M0609 | $\Phi 6*9$ | 220 |
| 3 | GR | 10 | 470 | ± 20 | 19 | 47 | GR1A471M0611 | $\Phi 6*11$ | 220 |
| 4 | GR | 10 | 1000 | ± 20 | 19 | 100 | GR1A102M0812 | $\Phi 8*12$ | 360 |
| 5 | GR | 16 | 100 | ± 20 | 16 | 16 | GR1C102M0511 | $\Phi 5*11$ | 260 |
| 6 | GR | 16 | 470 | ± 20 | 16 | 75 | GR1C471M0812 | $\Phi 8*12$ | 310 |
| 7 | GR | 25 | 100 | ± 20 | 14 | 250 | 1E101M0607 | $\Phi 6*7$ | 142 |
| 8 | GR | 25 | 47 | ± 20 | 14 | 11 | GR1E470M0507 | $\Phi 5*7$ | 80 |
| 9 | GR | 25 | 47 | ± 20 | 14 | 11 | GR1E470M0511 | $\Phi 5*11$ | 97 |
| 10 | GR | 25 | 220 | ± 20 | 14 | 55 | GR1E221M0611 | $\Phi 6*11$ | 236 |
| 11 | GR | 25 | 220 | ± 20 | 14 | 55 | GR1E221M0807 | $\Phi 8*7$ | 236 |
| 12 | GR | 25 | 470 | ± 20 | 14 | 117 | GR1E471M0812 | $\Phi 8*12$ | 305 |
| 13 | GR | 35 | 100 | ± 20 | 12 | 35 | GR1V101M0611 | $\Phi 6*11$ | 150 |
| 14 | GR | 35 | 220 | ± 20 | 12 | 77 | GR1V221M0812 | $\Phi 8*12$ | 270 |
| 15 | GR | 35 | 330 | ± 20 | 12 | 116 | GR1V331M1013 | $\Phi 10*13$ | 350 |
| 16 | GR | 50 | 100 | ± 20 | 10 | 50 | GR1H101M0812 | $\Phi 8*12$ | 188 |
| 17 | GR | 50 | 220 | ± 20 | 10 | 110 | KM1H221M1016 | $\Phi 10*16$ | 300 |
| 18 | GR | 35 | 470 | ± 20 | 16 | 165 | GR1V471M1013 | $\Phi 10*13$ | 480 |

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