



VE 系列

特长 / 用途

- 3φ ~ 18φ、85℃、2,000小时寿命保证
- 贴片型大额定静电容量电容器
- 适用表面黏着之高密度PCB设计
- 符合RoHS指令



标示颜色: 黑色

规格表

| 项目  | 性能  |  |           |      |      |      |      |      |      |      |           |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
|---|---|--|-----------|------|------|------|------|------|------|------|-----------|-----------|-----------|-----|----|----|----|----|----|----|-----|-----------|-----------|---------|------|------|------|------|------|------|------|------|------|---|---|------------|---|------|------|------|------|------|------|------|------|------|------|
| 工作温度范围  | -40℃ ~ +85℃   |  |           |      |      |      |      |      |      |      |           |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
| 额定静电容量容许误差值   | ± 20% (120Hz, 20℃)  |  |           |      |      |      |      |      |      |      |           |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
| 漏电流(20℃)  | 额定电压  | 6.3 ~ 100V      160 ~ 450V   |           |      |      |      |      |      |      |      |           |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
|   | 测试时间  | 2 分钟后      5 分钟后   |           |      |      |      |      |      |      |      |           |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
|   | 制品尺寸  | 3 ~ 10φ      12.5 ~ 18φ      12.5 ~ 18φ  |           |      |      |      |      |      |      |      |           |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
|   | 漏电流   | I = 0.01CV 或 3μA<br>中的任一个较大值以下      I = 0.03CV 或 4μA<br>中的任一个较大值以下      I = 0.04CV + 100μA |           |      |      |      |      |      |      |      |           |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
| 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(120Hz, 20℃)  | <table border="1"> <thead> <tr> <th>额定电压</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160 ~ 250</th> <th>400 ~ 450</th> </tr> </thead> <tbody> <tr> <td>3 ~ 10φ</td> <td>0.42</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>-</td> <td>-</td> </tr> <tr> <td>12.5 ~ 18φ</td> <td>-</td> <td>0.38</td> <td>0.34</td> <td>0.30</td> <td>0.26</td> <td>0.22</td> <td>0.18</td> <td>0.14</td> <td>0.10</td> <td>0.20</td> <td>0.25</td> </tr> </tbody> </table> |  |           |      |      |      |      |      |      |      |           | 额定电压      | 4         | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 ~ 250 | 400 ~ 450 | 3 ~ 10φ | 0.42 | 0.28 | 0.24 | 0.20 | 0.14 | 0.12 | 0.10 | 0.10 | 0.10 | - | - | 12.5 ~ 18φ | - | 0.38 | 0.34 | 0.30 | 0.26 | 0.22 | 0.18 | 0.14 | 0.10 | 0.20 | 0.25 |
|   | 额定电压  | 4  | 6.3       | 10   | 16   | 25   | 35   | 50   | 63   | 100  | 160 ~ 250 | 400 ~ 450 |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
| 3 ~ 10φ   | 0.42  | 0.28   | 0.24      | 0.20 | 0.14 | 0.12 | 0.10 | 0.10 | 0.10 | -    | -         |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
| 12.5 ~ 18φ  | -   | 0.38   | 0.34      | 0.30 | 0.26 | 0.22 | 0.18 | 0.14 | 0.10 | 0.20 | 0.25      |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
| 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。                 |   |  |           |      |      |      |      |      |      |      |           |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
| 温度特性(120Hz)   | 阻抗比不可大于下表所列数值   |  |           |      |      |      |      |      |      |      |           |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
|   | 额定电压  |  | 4.0       | 6.3  | 10   | 16   | 25   | 35   | 50   | 63   | 100       | 160 ~ 250 | 400 ~ 450 |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
|   | 阻抗比   | Z(-25℃)  | φD < 12.5 | 7    | 4    | 4    | 3    | 2    | 2    | 2    | 2         | -         | -         |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
|   |   | /Z(+20℃)   | φD ≧ 12.5 | -    | 5    | 5    | 4    | 2    | 2    | 2    | 2         | 3         | 6         |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
| Z(-40℃)   |   | φD < 12.5  | 15        | 8    | 5    | 4    | 3    | 3    | 3    | 3    | -         | -         |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
| /Z(+20℃)  |   | φD ≧ 12.5  | -         | 14   | 12   | 10   | 5    | 4    | 3    | 3    | 3         | 6         | 10        |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
| 耐久性   | 保证寿命时间  | 2,000 小时   |           |      |      |      |      |      |      |      |           |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
|   | 静电容量变化率   | ≧ 初始值的 ± 20%(4V: ± 30%)  |           |      |      |      |      |      |      |      |           |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
|   | 损失角正切值  | ≧ 初始规格值的 200%(4V: < 300%)  |           |      |      |      |      |      |      |      |           |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
|   | 漏电流   | ≧ 初始规格值  |           |      |      |      |      |      |      |      |           |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
| * 于 85℃ 环境中供给额定电压 2,000 小时后, 待制品回复至 20℃ 的环境中进行量测时, 需满足上列要求。 |   |  |           |      |      |      |      |      |      |      |           |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
| 高温无负荷特性   | 保证寿命时间: 1,000 小时; 其它项目同耐久性试验<br>额定电压 160 ~ 450V 需进行电压补偿后再行量测(依据 JIS C 5101-4 4.1 规定)。   |  |           |      |      |      |      |      |      |      |           |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
| 纹波电流与频率修正系数   | 频率(Hz)  |  | 50        | 120  | 1k   | 10k≤ |      |      |      |      |           |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
|   | 静电容量(μF/微法拉)  |  | ≧ 1,000   | 0.80 | 1.00 | 1.25 | 1.40 |      |      |      |           |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |
|   |   | 1,000 < 静电容量 ≤ 10,000  | 0.85      | 1.00 | 1.15 | 1.25 |      |      |      |      |           |           |           |     |    |    |    |    |    |    |     |           |           |         |      |      |      |      |      |      |      |      |      |   |   |            |   |      |      |      |      |      |      |      |      |      |      |

贴片型

寸法图

图 1

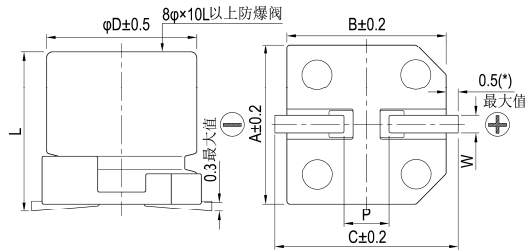
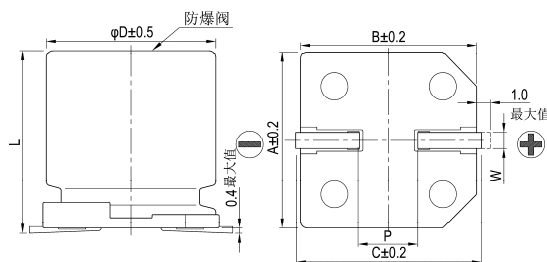


图 2



制品各项寸法

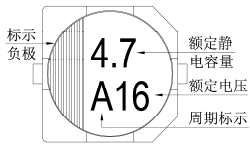
单位: 毫米

| φD   | L          | A    | B    | C    | W           | P ± 0.2 | 图号 |
|------|------------|------|------|------|-------------|---------|----|
| 3    | 5.3 ± 0.2  | 3.3  | 3.3  | 4.1  | 0.45 ~ 0.75 | 0.8     | 1  |
| 4    | 5.3 ± 0.2  | 4.3  | 4.3  | 5.1  | 0.5 ~ 0.8   | 1.0     | 1  |
| 5    | 5.3 ± 0.2  | 5.3  | 5.3  | 5.9  | 0.5 ~ 0.8   | 1.5     | 1  |
| 6.3  | 5.3 ± 0.2  | 6.6  | 6.6  | 7.2  | 0.5 ~ 0.8   | 2.0     | 1  |
| 6.3  | 7.7 ± 0.3  | 6.6  | 6.6  | 7.2  | 0.5 ~ 0.8   | 2.0     | 1  |
| 8    | 6.5 ± 0.3  | 8.3  | 8.3  | 9.0  | 0.5 ~ 0.8   | 2.3     | 1  |
| 8    | 10 ± 0.5   | 8.3  | 8.3  | 9.0  | 0.7 ~ 1.1   | 3.1     | 1  |
| 10   | 7.7 ± 0.3  | 10.3 | 10.3 | 11.0 | 0.7 ~ 1.3   | 4.7     | 1  |
| 10   | 10 ± 0.5   | 10.3 | 10.3 | 11.0 | 0.7 ~ 1.3   | 4.7     | 1  |
| 12.5 | 13.5 ± 0.5 | 13.0 | 13.0 | 13.7 | 1.1 ~ 1.4   | 4.4     | 2  |
| 12.5 | 16 ± 0.5   | 13.0 | 13.0 | 13.7 | 1.1 ~ 1.4   | 4.4     | 2  |
| 16   | 16.5 ± 0.5 | 17.0 | 17.0 | 18.0 | 1.1 ~ 1.4   | 6.4     | 2  |
| 16   | 21.5 ± 0.5 | 17.0 | 17.0 | 18.0 | 1.1 ~ 1.4   | 6.4     | 2  |
| 18   | 16.5 ± 0.5 | 19.0 | 19.0 | 20.0 | 1.1 ~ 1.4   | 6.4     | 2  |
| 18   | 21.5 ± 0.5 | 19.0 | 19.0 | 20.0 | 1.1 ~ 1.4   | 6.4     | 2  |

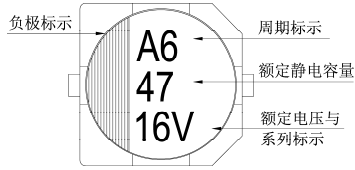
(\*): 3 ~ 6.3φ 最大值为0.4

标示

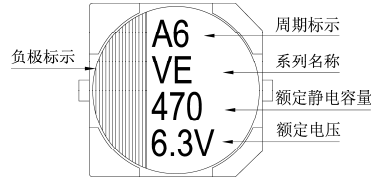
φD = 3 mm



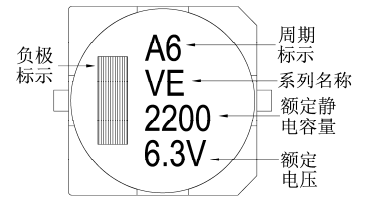
φD = 4 ~ 6.3 mm



φD = 8 ~ 10 mm



φD ≥ 12.5 mm



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)，120 赫兹(Hz)，85°C

## 制品尺寸与容许纹波电流一览表

| 额定电压 V <sub>DC</sub> | 4V(0G) |                    | 6.3V(0J)  |                    | 10V(1A)        |                          | 16V(1C)           |                             | 25V(1E)          |                    | 35V(1V)        |                    | 50V(1H)        |                    | 63(1J)         |                  |          |
|----------------------|--------|--------------------|-----------|--------------------|----------------|--------------------------|-------------------|-----------------------------|------------------|--------------------|----------------|--------------------|----------------|--------------------|----------------|------------------|----------|
|                      | 内容     | φD×L               | mA        | φD×L               | mA             | φD×L                     | mA                | φD×L                        | mA               | φD×L               | mA             | φD×L               | mA             | φD×L               | mA             | φD×L             | mA       |
| 1                    | 010    |                    |           |                    |                |                          |                   |                             |                  |                    |                |                    |                |                    |                |                  |          |
| 2.2                  | 2R2    |                    |           |                    |                |                          |                   |                             |                  |                    |                |                    |                | 4x5.3              | 10             | 4x5.3            | 8        |
| 3.3                  | 3R3    |                    |           |                    |                |                          |                   |                             |                  | 3x5.3              | 14             | 3x5.3              | 14             | 4x5.3              | 17             | 5x5.3            | 22       |
| 4.7                  | 4R7    |                    |           |                    |                | 3x5.3                    | 14                | 3x5.3                       | 14               | 4x5.3              | 26             | 4x5.3              | 26             | 4x5.3              | 20             | 5x5.3            | 25       |
| 10                   | 100    |                    |           | 3x5.3              | 16             | 4x5.3                    | 26                | 4x5.3                       | 26               | 5x5.3              | 44             | 5x5.3              | 44             | 5x5.3              | 35             | 6.3x5.3<br>8x6.5 | 40<br>46 |
| 22                   | 220    | 3x5.3              | 16        | 4x5.3              | 26             | 5x5.3                    | 44                | 4x5.3<br>5x5.3              | 30<br>44         | 5x5.3<br>6.3x5.3   | 47<br>59       | 5x5.3<br>6.3x5.3   | 47<br>59       | 6.3x5.3<br>6.3x7.7 | 50<br>65       | 8x10             | 139      |
| 33                   | 330    | 4x5.3              | 31        | 4x5.3              | 31             | 4x5.3<br>5x5.3           | 31<br>55          | 5x5.3                       | 55               | 5x5.3<br>6.3x5.3   | 55<br>67       | 6.3x5.3<br>6.3x7.7 | 67<br>85       | 6.3x7.7<br>8x6.5   | 75<br>95       | 8x10             | 139      |
| 47                   | 470    | 4x5.3              | 34        | 4x5.3<br>5x5.3     | 34<br>55       | 6.3x5.3                  | 75                | 5x5.3<br>6.3x5.3            | 55<br>75         | 6.3x5.3<br>6.3x7.7 | 75<br>98       | 6.3x7.7<br>8x6.5   | 98<br>105      | 6.3x7.7<br>8x10    | 75<br>190      | 10x10            | 200      |
| 68                   | 680    | 5x5.3              | 58        | 5x5.3<br>6.3x5.3   | 58<br>89       | 5x5.3<br>6.3x5.3         | 58<br>89          | 6.3x5.3                     | 89               | 6.3x7.7            | 109            | 6.3x7.7            | 109            | 8x10               | 190            | 10x10            | 226      |
| 100                  | 101    | 5x5.3<br>6.3x5.3   | 58<br>89  | 6.3x5.3            | 89             | 6.3x5.3<br>6.3x7.7       | 89<br>109         | 6.3x5.3<br>6.3x7.7<br>8x6.5 | 89<br>109<br>125 | 6.3x7.7<br>8x6.5   | 109<br>145     | 8x10               | 252            | 8x10               | 190            | 10x10            | 226      |
| 150                  | 151    |                    |           |                    |                |                          |                   |                             |                  |                    |                | 10x7.7             | 252            |                    |                |                  |          |
| 220                  | 221    | 6.3x5.3<br>6.3x7.7 | 89<br>124 | 6.3x5.3<br>6.3x7.7 | 89<br>124      | 6.3x7.7<br>8x6.5<br>8x10 | 124<br>175<br>270 | 6.3x7.7<br>8x10             | 124<br>270       | 8x10<br>10x7.7     | 270<br>270     | 8x10<br>10x10      | 270<br>370     | 10x10              | 320            | 12.5x13.5        | 500      |
| 330                  | 331    | 6.3x7.7            | 124       | 6.3x7.7<br>8x6.5   | 124<br>190     | 8x10                     | 290               | 8x10<br>10x7.7              | 290<br>290       | 10x10              | 400            | 10x10              | 400            | 12.5x13.5          | 600            | 12.5x16          | 600      |
| 470                  | 471    | 8x10               | 290       | 8x10               | 290            | 10x7.7<br>10x10          | 290<br>400        | 10x10                       | 400              | 10x10              | 400            | 12.5x13.5          | 680            | 12.5x16            | 740            | 16x16.5          | 850      |
| 680                  | 681    |                    |           | 10x7.7             | 290            | 10x10                    | 410               | 10x10                       | 410              | 12.5x13.5          | 680            | 12.5x13.5          | 680            | 16x16.5            | 1,000          | 18x16.5          | 1,100    |
| 1,000                | 102    |                    |           | 10x10              | 430            | 10x10                    | 430               | 12.5x13.5                   | 750              | 12.5x13.5          | 750            | 16x16.5            | 1,100          | 18x16.5<br>16x21.5 | 1,350<br>1,400 |                  |          |
| 2,200                | 222    |                    |           | 12.5x13.5          | 890            | 12.5x13.5                | 890               | 16x16.5                     | 1,100            | 16x16.5            | 1,100          | 18x16.5<br>16x21.5 | 1,450<br>1,500 |                    |                |                  |          |
| 3,300                | 332    |                    |           | 12.5x16            | 1,000          | 16x16.5                  | 1,300             | 16x16.5                     | 1,300            | 18x16.5<br>16x21.5 | 1,450<br>1,500 | 18x21.5            | 1,750          |                    |                |                  |          |
| 4,700                | 472    |                    |           | 16x16.5            | 1,400          | 16x16.5                  | 1,400             | 18x16.5<br>16x21.5          | 1,600<br>1,650   | 18x21.5            | 1,750          |                    |                |                    |                |                  |          |
| 6,800                | 682    |                    |           | 18x16.5<br>16x21.5 | 1,700<br>1,750 | 18x16.5<br>16x21.5       | 1,700<br>1,750    | 18x21.5                     | 2,000            |                    |                |                    |                |                    |                |                  |          |
| 10,000               | 103    |                    |           | 18x21.5            | 2,000          | 18x21.5                  | 2,000             |                             |                  |                    |                |                    |                |                    |                |                  |          |

| 额定电压 V <sub>DC</sub> | 100V(2A) |                    | 160V(2C)   |                    | 200V(2D)   |                    | 250V(2E)   |                    | 400V(2G)   |         | 450V(2W)  |         |     |
|----------------------|----------|--------------------|------------|--------------------|------------|--------------------|------------|--------------------|------------|---------|-----------|---------|-----|
| 内容                   | φD×L     | mA                 | φD×L       | mA                 | φD×L       | mA                 | φD×L       | mA                 | φD×L       | mA      | φD×L      | mA      |     |
| 4.7                  | 4R7      |                    |            |                    |            |                    |            |                    | 12.5x13.5  | 120     | 12.5x13.5 | 120     |     |
| 10                   | 100      | 8x10               | 90         |                    |            |                    | 12.5x13.5  | 150                | 12.5x13.5  | 120     | 12.5x16   | 130     |     |
| 22                   | 220      | 8x10               | 90         |                    |            | 12.5x13.5          | 240        | 12.5x13.5          | 150        | 16x16.5 | 140       | 16x16.5 | 140 |
| 33                   | 330      | 10x10              | 120        | 12.5x13.5          | 290        | 12.5x16            | 310        | 12.5x16            | 240        | 16x16.5 | 140       | 18x16.5 | 180 |
| 47                   | 470      | 10x10              | 120        | 12.5x16            | 370        | 16x16.5            | 420        | 16x16.5            | 340        | 18x16.5 | 280       | 18x21.5 | 250 |
| 68                   | 680      | 12.5x13.5          | 380        | 16x16.5            | 500        | 16x16.5            | 420        | 18x16.5<br>16x21.5 | 440<br>450 | 18x21.5 | 350       |         |     |
| 100                  | 101      | 12.5x13.5          | 440        | 18x16.5<br>16x21.5 | 650<br>690 | 18x16.5<br>16x21.5 | 550<br>590 | 18x21.5            | 490        |         |           |         |     |
| 220                  | 221      | 16x16.5            | 600        |                    |            |                    |            |                    |            |         |           |         |     |
| 330                  | 331      | 18x16.5<br>16x21.5 | 780<br>850 |                    |            |                    |            |                    |            |         |           |         |     |

## 产品编码说明

VE系列    470微法拉    ±20%    6.3V    编带    8φ×10L    无铅引线与PET镀膜铝壳

**VE-**    **471**    **M**    **0J**    **TR**    **-**    **0810**

系列名    额定静电容量    额定静电容量容许误差值    额定电压    包装型式    端子型式    制品尺寸    制品引线及铝壳镀膜材质

注：如需了解更详细介绍，请参阅目录第15页“贴片型产品编码说明”。

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