

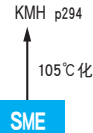
SME 系列

● 保证 85℃ 2,000 小时。

标准品

纹波  
负荷

RoHS指令  
适应品



◆ 规格表

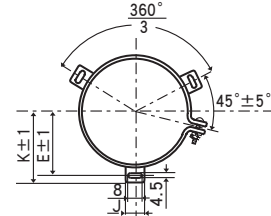
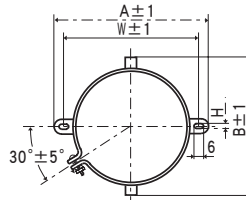
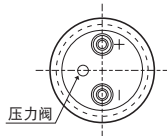
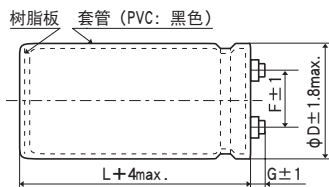
| 项 目            | 性 能  |         |             |        |               |     |         |
|----------------|--|---------|-------------|--------|---------------|-----|---------|
| 工作温度范围         | -40~+85℃ (10~100V <sub>dc</sub> )  |         |             |        |               |     |         |
| 额定电压范围         | 10~100V <sub>dc</sub>  |         |             |        |               |     |         |
| 静电容量容许差        | ±20% (M) (20℃、120Hz)   |         |             |        |               |     |         |
| 漏电流            | I ≤ 0.02CV 或者 5mA 中任意一个较小值<br>I: 漏电流 (μA)、C: 静电容量 (μF)、额定电压 (V <sub>dc</sub> ) (20℃、5分值)   |         |             |        |               |     |         |
| 损失角正切值 (tan δ) | ≤ 标准品一览表的值 (20℃、120Hz)   |         |             |        |               |     |         |
| 温度特性           | 静电容量变化率 C(-25℃) / C(+20℃) ≥ 0.7 (120Hz)  |         |             |        |               |     |         |
| 绝缘电阻           | 全部端子和容器套上的绝缘套且安装的固定带之间用DC500V的绝缘电阻测定仪测出的值 ≥ 100MΩ  |         |             |        |               |     |         |
| 绝缘耐压           | 全部端子和容器套上的绝缘套且安装的固定带之间施加AC2,000V的电压1分钟未出现异常。   |         |             |        |               |     |         |
| 耐久性            | 在85℃环境中, 不超过额定电压的范围下叠加额定纹波电流, 连续加载额定电压2,000小时后, 待温度恢复到20℃进行测量时, 应满足以下要求。<br><table border="1"> <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>    | 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 |
| 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        | 在85℃环境中, 无负荷放置500小时后待温度恢复到20℃, 进行试验前处理 (JIS C 5101-4 4.1项) 后进行测量时, 应满足以下要求。<br><table border="1"> <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 150%</td> </tr> <tr> <td>漏电流</td> <td>≤ 初始规格值</td> </tr> </table> | 静电容量变化率 | ≤ 初始值的 ±20% | 损失角正切值 | ≤ 初始规格值的 150% | 漏电流 | ≤ 初始规格值 |
| 静电容量变化率        | ≤ 初始值的 ±20%  |         |             |        |               |     |         |
| 损失角正切值         | ≤ 初始规格值的 150%  |         |             |        |               |     |         |
| 漏电流            | ≤ 初始规格值  |         |             |        |               |     |         |

◆ 尺寸图 (CE331 形) [mm]

● 端子代码 : LG

● 绑带代码 : B (Φ 35 为标准规格)

● 绑带代码 : C (Φ 50 以上为标准规格)



| 公称直径 | A     | B    | W    | H   | F    |
|------|-------|------|------|-----|------|
| 35   | 58.0  | 44.0 | 48.0 | 3.5 | 12.7 |
| 50   | 78.0  | 64.0 | 68.0 | 4.5 | 22.4 |
| 63.5 | 90.0  | 76.0 | 80.0 | 4.5 | 28.0 |
| 76.2 | 104.5 | 90.0 | 93.5 | 4.5 | 31.5 |

| 公称直径 | E    | K    | J    | F    |
|------|------|------|------|------|
| 50   | 32.5 | 37.0 | 14.0 | 22.4 |
| 63.5 | 38.1 | 43.5 | 14.0 | 28.0 |
| 76.2 | 44.5 | 50.0 | 14.0 | 31.5 |
| 89   | 50.8 | 56.5 | 16.0 | 31.5 |

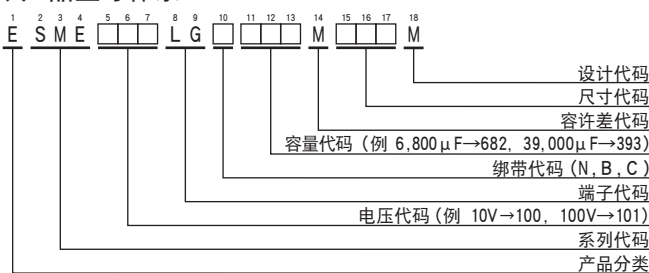
φ 35 ~ φ 63.5: G=6  
φ 76.2、φ 89: G=5

< 端子螺丝规格 >

十字六角长螺丝 M5×0.8×10  
螺丝拧紧最大容许转矩 3.23N·m

(注 1) 端子螺丝及安装绑带分批交货为标准规格。

◆ 产品型号体系



产品型号代码的详细介绍请参考「产品型号表示方法 (螺丝端子型)」。

SME 系列

◆标准品一览表

| WV (Vdc) | Cap (μF) | 尺寸 φD×L(mm) | tan δ | 额定纹波电流 (Arms/85℃, 120Hz) | 产品型号               | WV (Vdc) | Cap (μF) | 尺寸 φD×L(mm) | tan δ              | 额定纹波电流 (Arms/85℃, 120Hz) | 产品型号               |
|----------|----------|-------------|-------|--------------------------|--------------------|----------|----------|-------------|--------------------|--------------------------|--------------------|
| 10       | 39,000   | 35×50       | 0.60  | 4.70                     | ESME100LGB393MA50M | 50       | 10,000   | 35×50       | 0.25               | 4.10                     | ESME500LGB103MA50M |
|          | 82,000   | 35×80       | 0.60  | 7.40                     | ESME100LGB823MA80M |          | 18,000   | 35×80       | 0.25               | 5.20                     | ESME500LGB183MA80M |
|          | 100,000  | 35×100      | 0.70  | 8.00                     | ESME100LGB104MAA0M |          | 22,000   | 35×100      | 0.30               | 5.90                     | ESME500LGB223MAA0M |
|          | 120,000  | 35×120      | 0.70  | 9.40                     | ESME100LGB124MAC0M |          | 27,000   | 35×120      | 0.35               | 6.60                     | ESME500LGB273MAC0M |
|          | 150,000  | 50×80       | 0.90  | 9.80                     | ESME100LGC154MC80M |          | 39,000   | 50×80       | 0.40               | 7.40                     | ESME500LGC393MC80M |
|          | 220,000  | 50×100      | 1.00  | 12.1                     | ESME100LGC224MCA0M |          | 56,000   | 50×100      | 0.40               | 9.80                     | ESME500LGC563MCA0M |
|          | 270,000  | 50×120      | 1.20  | 13.6                     | ESME100LGC274MCC0M |          | 68,000   | 50×120      | 0.45               | 11.1                     | ESME500LGC683MCC0M |
|          | 390,000  | 63.5×100    | 1.50  | 15.3                     | ESME100LGC394MDA0M |          | 82,000   | 63.5×100    | 0.50               | 12.2                     | ESME500LGC823MDA0M |
|          | 470,000  | 63.5×120    | 2.00  | 16.0                     | ESME100LGC474MDC0M |          | 120,000  | 63.5×120    | 0.50               | 16.0                     | ESME500LGC124MDC0M |
|          | 560,000  | 76.2×100    | 2.50  | 17.3                     | ESME100LGC564MEA0M |          | 150,000  | 76.2×120    | 0.60               | 18.1                     | ESME500LGC154MEC0M |
| 680,000  | 76.2×120 | 3.00        | 18.7  | ESME100LGC684MEC0M       | 180,000            | 76.2×140 | 0.70     | 19.5        | ESME500LGC184MEE0M |                          |                    |
| 16       | 27,000   | 35×50       | 0.45  | 4.20                     | ESME160LGB273MA50M | 270,000  | 89×140   | 0.80        | 24.6               | ESME500LGC274MFE0M       |                    |
|          | 56,000   | 35×80       | 0.60  | 6.50                     | ESME160LGB563MA80M | 63       | 5,600    | 35×50       | 0.20               | 3.00                     | ESME630LGB562MA50M |
|          | 82,000   | 35×100      | 0.70  | 8.00                     | ESME160LGB823MAA0M |          | 10,000   | 35×80       | 0.25               | 4.00                     | ESME630LGB103MA80M |
|          | 100,000  | 35×120      | 0.70  | 9.60                     | ESME160LGB104MAC0M |          | 15,000   | 35×100      | 0.25               | 5.30                     | ESME630LGB153MAA0M |
|          | 120,000  | 50×80       | 0.80  | 9.60                     | ESME160LGC124MC80M |          | 18,000   | 35×120      | 0.25               | 6.20                     | ESME630LGB183MAC0M |
|          | 150,000  | 50×100      | 0.90  | 11.2                     | ESME160LGC154MCA0M |          | 22,000   | 50×80       | 0.30               | 6.50                     | ESME630LGC223MC80M |
|          | 220,000  | 50×120      | 1.00  | 14.2                     | ESME160LGC224MCC0M |          | 33,000   | 50×100      | 0.35               | 8.10                     | ESME630LGC333MCA0M |
|          | 270,000  | 63.5×100    | 1.20  | 15.3                     | ESME160LGC274MDA0M |          | 39,000   | 50×120      | 0.35               | 9.60                     | ESME630LGC393MCC0M |
|          | 330,000  | 63.5×120    | 1.30  | 17.1                     | ESME160LGC334MDC0M |          | 47,000   | 63.5×100    | 0.40               | 10.2                     | ESME630LGC473MDA0M |
|          | 390,000  | 76.2×100    | 1.60  | 18.0                     | ESME160LGC394MEA0M |          | 68,000   | 63.5×120    | 0.40               | 13.3                     | ESME630LGC683MDC0M |
| 470,000  | 76.2×120 | 1.80        | 19.3  | ESME160LGC474MEC0M       | 100,000            |          | 76.2×120 | 0.45        | 17.1               | ESME630LGC104MEC0M       |                    |
| 560,000  | 76.2×140 | 2.00        | 20.7  | ESME160LGC564MEE0M       | 120,000            | 76.2×140 | 0.50     | 19.0        | ESME630LGC124MEE0M |                          |                    |
| 25       | 18,000   | 35×50       | 0.35  | 4.00                     | ESME250LGB183MA50M | 150,000  | 89×140   | 0.55        | 22.0               | ESME630LGC154MFE0M       |                    |
|          | 39,000   | 35×80       | 0.40  | 6.20                     | ESME250LGB393MA80M | 80       | 3,300    | 35×50       | 0.15               | 2.50                     | ESME800LGB332MA50M |
|          | 47,000   | 35×100      | 0.40  | 7.40                     | ESME250LGB473MAA0M |          | 6,800    | 35×80       | 0.20               | 3.70                     | ESME800LGB682MA80M |
|          | 56,000   | 35×120      | 0.45  | 8.30                     | ESME250LGB563MAC0M |          | 10,000   | 35×100      | 0.20               | 4.90                     | ESME800LGB103MAA0M |
|          | 82,000   | 50×80       | 0.50  | 9.70                     | ESME250LGC823MC80M |          | 12,000   | 35×120      | 0.20               | 5.40                     | ESME800LGB123MAC0M |
|          | 100,000  | 50×100      | 0.60  | 10.8                     | ESME250LGC104MCA0M |          | 15,000   | 50×80       | 0.25               | 6.00                     | ESME800LGC153MC80M |
|          | 120,000  | 50×120      | 0.60  | 12.8                     | ESME250LGC124MCC0M |          | 22,000   | 50×100      | 0.30               | 7.10                     | ESME800LGC223MCA0M |
|          | 180,000  | 63.5×100    | 0.75  | 14.7                     | ESME250LGC184MDA0M |          | 27,000   | 50×120      | 0.30               | 8.60                     | ESME800LGC273MCC0M |
|          | 220,000  | 63.5×120    | 0.80  | 16.8                     | ESME250LGC224MDC0M |          | 33,000   | 63.5×100    | 0.35               | 9.30                     | ESME800LGC333MDA0M |
|          | 270,000  | 76.2×100    | 0.90  | 18.3                     | ESME250LGC274MEA0M |          | 47,000   | 63.5×120    | 0.35               | 12.0                     | ESME800LGC473MDC0M |
| 330,000  | 76.2×120 | 1.00        | 20.7  | ESME250LGC334MEC0M       | 68,000             |          | 76.2×120 | 0.35        | 15.4               | ESME800LGC683MEC0M       |                    |
| 390,000  | 76.2×140 | 1.20        | 22.1  | ESME250LGC394MEE0M       | 82,000             | 76.2×140 | 0.35     | 18.1        | ESME800LGC823MEE0M |                          |                    |
| 560,000  | 89×140   | 1.50        | 25.8  | ESME250LGC564MFE0M       | 100,000            | 89×140   | 0.40     | 21.0        | ESME800LGC104MFE0M |                          |                    |
| 35       | 15,000   | 35×50       | 0.30  | 3.90                     | ESME350LGB153MA50M | 100      | 2,200    | 35×50       | 0.10               | 2.50                     | ESME101LGB222MA50M |
|          | 33,000   | 35×80       | 0.40  | 6.00                     | ESME350LGB333MA80M |          | 4,700    | 35×80       | 0.15               | 3.40                     | ESME101LGB472MA80M |
|          | 39,000   | 35×100      | 0.40  | 7.00                     | ESME350LGB393MAA0M |          | 6,800    | 35×100      | 0.15               | 4.20                     | ESME101LGB682MAA0M |
|          | 47,000   | 35×120      | 0.45  | 8.00                     | ESME350LGB473MAC0M |          | 8,200    | 35×120      | 0.15               | 5.00                     | ESME101LGB822MAC0M |
|          | 68,000   | 50×80       | 0.50  | 9.00                     | ESME350LGC683MC80M |          | 10,000   | 50×80       | 0.20               | 5.20                     | ESME101LGC103MC80M |
|          | 82,000   | 50×100      | 0.55  | 10.3                     | ESME350LGC823MCA0M |          | 18,000   | 50×120      | 0.20               | 8.10                     | ESME101LGC183MCC0M |
|          | 120,000  | 50×120      | 0.60  | 12.8                     | ESME350LGC124MCC0M |          | 22,000   | 63.5×100    | 0.25               | 8.60                     | ESME101LGC223MDA0M |
|          | 150,000  | 63.5×100    | 0.70  | 14.0                     | ESME350LGC154MDA0M |          | 27,000   | 63.5×120    | 0.25               | 10.3                     | ESME101LGC273MDC0M |
|          | 180,000  | 63.5×120    | 0.70  | 16.6                     | ESME350LGC184MDC0M |          | 33,000   | 76.2×100    | 0.25               | 11.1                     | ESME101LGC333MEA0M |
|          | 220,000  | 76.2×100    | 0.75  | 17.3                     | ESME350LGC224MEA0M |          | 39,000   | 76.2×120    | 0.25               | 12.4                     | ESME101LGC393MEC0M |
| 270,000  | 76.2×120 | 0.80        | 19.8  | ESME350LGC274MEC0M       | 47,000             | 76.2×140 | 0.25     | 14.3        | ESME101LGC473MEE0M |                          |                    |
| 330,000  | 76.2×140 | 0.90        | 22.5  | ESME350LGC334MEE0M       | 68,000             | 89×140   | 0.30     | 18.0        | ESME101LGC683MFE0M |                          |                    |
| 470,000  | 89×140   | 1.00        | 28.3  | ESME350LGC474MFE0M       |                    |          |          |             |                    |                          |                    |

◆额定纹波电流频率修正系数

纹波频率与标准品一览表的规定值相异时，请使用小于乘以下表系数所得之值的值。

| 额定电压 (Vdc) | φD (mm)   | 频率 (Hz) |      |      |      |      |      |
|------------|-----------|---------|------|------|------|------|------|
|            |           | 50      | 120  | 300  | 1k   | 10k  | 50k  |
| 10~50      | φ35~φ89   | 0.95    | 1.00 | 1.03 | 1.05 | 1.09 | 1.12 |
| 63~80      | φ50~φ89   |         |      |      |      |      |      |
| 100        | φ63.5~φ89 |         |      |      |      |      |      |
| 63~80      | φ35       | 0.90    | 1.00 | 1.06 | 1.10 | 1.18 | 1.22 |
| 100        | φ50       |         |      |      |      |      |      |
| 100        | φ35       |         |      |      |      |      |      |
| 100        | φ35       | 0.82    | 1.00 | 1.12 | 1.22 | 1.30 | 1.33 |

※铝电解电容器由于在纹波电流叠加时自我发热、温度上升而老化，每升温 5℃寿命减少一半。

要想保持长寿命请在使用过程中降低纹波电流。