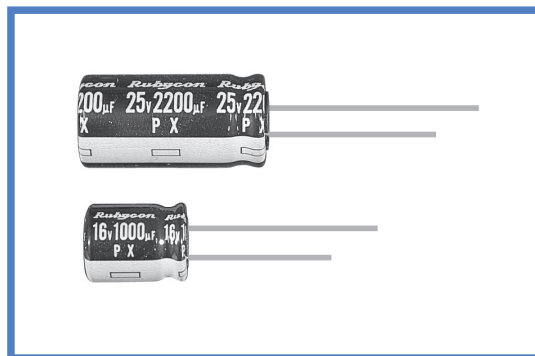


PX 系列
SERIES

105°C 标准品
105°C Standard

◆ 特 长 / FEATURES

RoHS指令对应品。
RoHS compliance.



◆ 规格表 / SPECIFICATIONS

| 项 目 Items | 特 性 Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|---|-----------|-----------|--|--|---|---|------|------|----------|-------------------|-----------------------------|-----|---------------|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|---------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|------------------|----|---|---|---|---|---|---|---|---|---|---|---|----|---|--|
| 工作温度范围 Category Temperature Range | -55 ~ +105°C | -40 ~ +105°C | -25 ~ +105°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 额定电压范围 Rated Voltage Range | 6.3 ~ 100Vdc | 160 ~ 400Vdc | 450Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 静电容量允许差 Capacitance Tolerance | ±20%(20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 漏 电 流 Leakage Current(MAX) | 6.3 ~ 100Vdc | | 160 ~ 450Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 小于I=0.01CV和3µA中的较大值 I=0.01CV or 3µA whichever is greater. (施加额定电压2分钟后) (After 2 minutes application of rated voltage) | | <table border="1"> <tr> <th>CV ≤ 1000</th> <th>CV > 1000</th> </tr> <tr> <td>I=0.1CV + 40µA以下(1分钟值) I=0.1CV + 40µA (1minute)</td> <td>I=0.04CV + 100µA以下(1分钟值) I=0.04CV + 100µA (1minute)</td> </tr> <tr> <td>I=0.03CV + 15µA以下(5分钟值) I=0.03CV + 15µA (5minutes)</td> <td>I=0.02CV + 25µA以下(5分钟值) I=0.02CV + 25µA (5minutes)</td> </tr> </table> | CV ≤ 1000 | CV > 1000 | I=0.1CV + 40µA以下(1分钟值) I=0.1CV + 40µA (1minute) | I=0.04CV + 100µA以下(1分钟值) I=0.04CV + 100µA (1minute) | I=0.03CV + 15µA以下(5分钟值) I=0.03CV + 15µA (5minutes) | I=0.02CV + 25µA以下(5分钟值) I=0.02CV + 25µA (5minutes) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CV ≤ 1000 | CV > 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I=0.1CV + 40µA以下(1分钟值) I=0.1CV + 40µA (1minute) | I=0.04CV + 100µA以下(1分钟值) I=0.04CV + 100µA (1minute) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I=0.03CV + 15µA以下(5分钟值) I=0.03CV + 15µA (5minutes) | I=0.02CV + 25µA以下(5分钟值) I=0.02CV + 25µA (5minutes) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I=漏电流 (µA) Leakage Current | C=静电容量 (µF) Capacitance | V=额定电压 (Vdc) Rated Voltage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 损失角正切值 (tan δ) Dissipation Factor(MAX) | <table border="1"> <tr> <th>额定电压 (Vdc) Rated Voltage</th> <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><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td> <td>(20°C, 120Hz)</td> </tr> <tr> <th>tan δ</th> <td>0.28</td><td>0.24</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.08</td><td>0.20</td><td>0.20</td><td>0.20</td><td>0.25</td><td>0.25</td><td>0.25</td> <td></td> </tr> </table> | | | | | | | | | | | | | 额定电压 (Vdc) Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | (20°C, 120Hz) | tan δ | 0.28 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.08 | 0.20 | 0.20 | 0.20 | 0.25 | 0.25 | 0.25 | | | | | | | | | | | | | | | | | |
| | 额定电压 (Vdc) Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | (20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| tan δ | 0.28 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.08 | 0.20 | 0.20 | 0.20 | 0.25 | 0.25 | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 对于静电容量超过1000µF的产品, 其静电容量每增加1000µF, 则损失角正切值在上表的基础上加上0.02。 When capacitance is over 1000µF, tan δ shall be added 0.02 to the listed value with increase of every 1000µF. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 耐 久 性 Endurance | 105°C 环境中, 不超过额定电压的范围内叠加额定纹波电流, 连续加载右表时间后, 满足以下各项要求。 After applying rated voltage with rated ripple current for specified time at 105°C, the capacitors shall meet the following requirements. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 静电容量变化率 Capacitance Change | 初期值的±25%以内 Within ±25% of the initial value. | | | | | | | | | | | 铝壳尺寸 Case Size | 时间 (hrs) Life Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 损失角正切值 Dissipation Factor | 规格值的200%以下 Not more than 200% of the specified value. | | | | | | | | | | | φ D ≤ 8 | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 漏 电 流 Leakage Current | 规格值以下 Not more than the specified value. | | | | | | | | | | | φ D ≥ 10 | 2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 低 温 特 性 Low Temperature Stability (阻抗比) Impedance Ratio(MAX) | <table border="1"> <tr> <th>额定电压 (Vdc) Rated Voltage</th> <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><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td> <td>(120Hz)</td> </tr> <tr> <th>Z(-25°C)/Z(20°C)</th> <td>5</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>3</td><td>3</td><td>4</td><td>6</td><td>6</td><td>7</td> <td></td> </tr> <tr> <th>Z(-40°C)/Z(20°C)</th> <td>10</td><td>8</td><td>6</td><td>4</td><td>3</td><td>3</td><td>3</td><td>3</td><td>4</td><td>4</td><td>8</td><td>8</td><td>10</td><td>-</td> <td></td> </tr> </table> | | | | | | | | | | | | | 额定电压 (Vdc) Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | (120Hz) | Z(-25°C)/Z(20°C) | 5 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 6 | 6 | 7 | | Z(-40°C)/Z(20°C) | 10 | 8 | 6 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 8 | 8 | 10 | - | |
| | 额定电压 (Vdc) Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | (120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Z(-25°C)/Z(20°C) | 5 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 6 | 6 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Z(-40°C)/Z(20°C) | 10 | 8 | 6 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 8 | 8 | 10 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

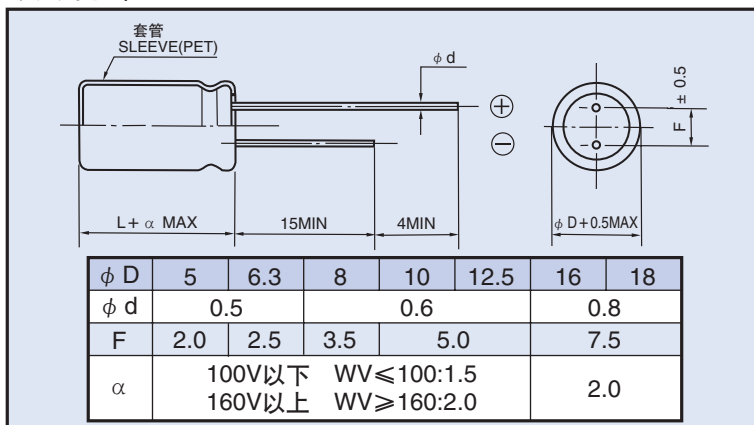
◆ 纹波电流修正系数 /
MULTIPLIER FOR RIPPLE CURRENT

| 频率 (Hz) Frequency | 60(50) | 120 | 500 | 1k | 10k ≤ |
|----------------------|--------|------|------|------|-------|
| 0.47 ~ 1µF | 0.50 | 1.00 | 1.20 | 1.30 | 1.50 |
| 2.2 ~ 4.7µF | 0.65 | 1.00 | 1.20 | 1.30 | 1.50 |
| 10 ~ 47µF | 0.80 | 1.00 | 1.20 | 1.30 | 1.50 |
| 100 ~ 1000µF | 0.80 | 1.00 | 1.10 | 1.15 | 1.20 |
| 2200 ~ 33000µF | 0.80 | 1.00 | 1.05 | 1.10 | 1.15 |

◆ 副记号 / OPTION

| | | 记号 Code |
|-------|------------|---------|
| PET套管 | PET Sleeve | EFC |

◆ 尺寸图 / DIMENSIONS (mm)



◆ 产品型号体系 / PART NUMBER

| | | | | | | |
|-----------------------|----------------|---------------------|----------------------------------|---------------|------------------------|-------------------|
| □□□ | PX | □□□□□ | M | □□□ | □□ | D × L |
| 额定电压 Rated Voltage | 系列名称 Series | 静电容量 Capacitance | 静电容量允许差 Capacitance Tolerance | 副记号 Option | 引线加工记号 Lead Forming | 铝壳尺寸 Case Size |

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[VTL100S10](#) [VTL470S10](#) [VTL470S16A](#) [511D336M250EK5D](#) [052687X](#) [ECE-A1CF471](#) [EKMA500ELL4R7ME07D](#) [NRE-](#)
[S560M16V6.3X7TBSTF](#) [RGA221M1CTA-0611G](#) [ERZA630VHN182UP54N](#) [UPL1A331MPH](#) [SK035M0100AZS-0611](#) [MAL214658821E3](#)
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