

TXV 系列
SERIES

对应无铅焊接125°C低ESR品
125°C Low ESR, Lead Free Reflow Soldering.

◆ 特 长 / FEATURES

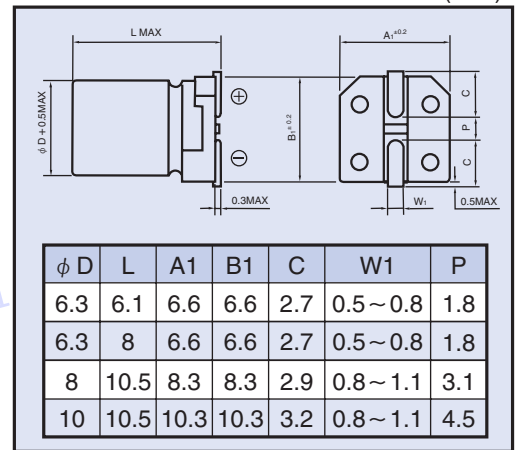
- 125°C、1000~2000小时、低ESR品。
Load Life : 125°C 1000~2000 hours Low ESR.
- 可以进行无铅回流焊接。
Lead free reflow soldering is available.
- 适用于高密度贴片安装。
Available for high density mounting.
- RoHS指令对应品。
RoHS compliance.



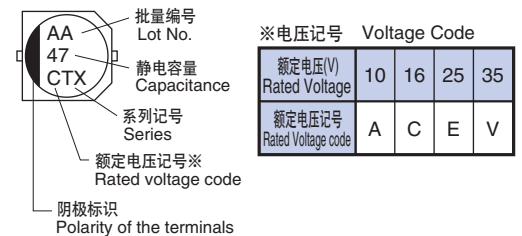
◆ 规格表 / SPECIFICATIONS

| 项 目 Items | 特 性 Characteristics | | | | | | | | | | | | |
|---|--|-------------------------------|---|-------------------|----------------------|-----------------------------------|--|----------------------|------|--------------------------|---|-------|------|
| 工作温度范围 Category Temperature Range | -40 ~ +125°C | | | | | | | | | | | | |
| 额定电压范围 Rated Voltage Range | 10 ~ 35V.DC | | | | | | | | | | | | |
| 静电容量允许差 Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | | | | | | | |
| 漏 电 流 Leakage Current(MAX) | 小于I=0.01CV和3μA中的较大值 (施加额定电压2分钟后) I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=漏电流 (μA) C=静电容量 (μF) V=额定电压 (V) Leakage Current Capacitance Rated Voltage | | | | | | | | | | | | |
| 损失角正切值 (tan δ) Dissipation Factor(MAX) | <table border="1"> <tr> <td>额定电压 (V) Rated Voltage</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>(20°C, 120Hz)</td> </tr> <tr> <td>tan δ</td> <td>0.3</td> <td>0.2</td> <td>0.18</td> <td>0.16</td> <td></td> </tr> </table> | 额定电压 (V) Rated Voltage | 10 | 16 | 25 | 35 | (20°C, 120Hz) | tan δ | 0.3 | 0.2 | 0.18 | 0.16 | |
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| tan δ | 0.3 | 0.2 | 0.18 | 0.16 | | | | | | | | | |
| 耐 久 性 Endurance | <p>在125°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 2000 hours at 125°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>静电容量变化率 Capacitance Change</td> <td>初期值的±30%以内 Within ±30% of the initial value.</td> <td>铝壳尺寸 Case Size</td> <td>时间 (hrs) LifeTime</td> </tr> <tr> <td>损 失 角 正 切 值 Dissipation Factor</td> <td>规格值的300%以下 Not more than 300% of the specified value.</td> <td>φ D=6.3</td> <td>1000</td> </tr> <tr> <td>漏 电 流 Leakage Current</td> <td>规格值以下 Not more than the specified value.</td> <td>φ D≥8</td> <td>2000</td> </tr> </table> | 静电容量变化率 Capacitance Change | 初期值的±30%以内 Within ±30% of the initial value. | 铝壳尺寸 Case Size | 时间 (hrs) LifeTime | 损 失 角 正 切 值 Dissipation Factor | 规格值的300%以下 Not more than 300% of the specified value. | φ D=6.3 | 1000 | 漏 电 流 Leakage Current | 规格值以下 Not more than the specified value. | φ D≥8 | 2000 |
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| 低 温 特 性 Low Temperature Stability (阻抗比) Impedance Ratio(MAX) | <table border="1"> <tr> <td>额定电压 (V) Rated Voltage</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>(120Hz)</td> </tr> <tr> <td>Z (-40°C) / Z (20°C)</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td></td> </tr> </table> | 额定电压 (V) Rated Voltage | 10 | 16 | 25 | 35 | (120Hz) | Z (-40°C) / Z (20°C) | 6 | 4 | 4 | 3 | |
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◆ 尺寸图 / DIMENSIONS (mm)



◆ 标 识 / MARKING



◆ 纹波电流修正系数 / MULTIPLIER FOR RIPPLE CURRENT
频率系数 Frequency Coefficient

| 频率 (Hz) Frequency | 120 | 1k | 10k | 100k≤ |
|----------------------|------|------|------|-------|
| 22~33μF | 0.45 | 0.75 | 0.90 | 1.00 |
| 47~100μF | 0.50 | 0.80 | 0.95 | 1.00 |
| 220~470μF | 0.60 | 0.85 | 0.95 | 1.00 |

◆ 标准品一览表 / STANDARD SIZE

Size φ D×L (mm), Ripple Current (mA r.m.s./125°C, 100kHz), ESR(Ω MAX/100kHz)

| WV (V.DC) | Cap (μF) | Size (φ D×L) | Ripple | ESR | |
|-----------|----------|--------------|--------|------|-------|
| | | | | 20°C | -40°C |
| 10 (1A) | 100 | 6.3×8 | 140 | 0.3 | 5 |
| | 220 | 6.3×8 | 110 | 0.7 | 11 |
| | 470 | 10×10.5 | 300 | 0.2 | 3 |
| 16 (1C) | 47 | 6.3×6.1 | 70 | 1 | 15 |
| | | 6.3×8 | 140 | 0.3 | 5 |

| WV (V.DC) | Cap (μF) | Size (φ D×L) | Ripple | ESR | |
|-----------|----------|--------------|--------|------|-------|
| | | | | 20°C | -40°C |
| 25 (1E) | 33 | 6.3×6.1 | 70 | 1 | 15 |
| | 47 | 6.3×8 | 140 | 0.3 | 5 |
| | 100 | 6.3×8 | 110 | 0.7 | 11 |
| | | 8×10.5 | 300 | 0.16 | 2.5 |
| | 220 | 8×10.5 | 220 | 0.3 | 4.5 |
| | | 10×10.5 | 420 | 0.1 | 1.5 |
| 330 | 10×10.5 | 300 | 0.2 | 3 | |

| WV (V.DC) | Cap (μF) | Size (φ D×L) | Ripple | ESR | |
|-----------|----------|--------------|--------|------|-------|
| | | | | 20°C | -40°C |
| 35 (1V) | 22 | 6.3×6.1 | 70 | 1 | 15 |
| | 33 | 6.3×8 | 140 | 0.3 | 5 |
| | 47 | 6.3×8 | 110 | 0.7 | 11 |
| | | 8×10.5 | 300 | 0.16 | 2.5 |
| | 100 | 8×10.5 | 220 | 0.3 | 4.5 |
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◆ 产品型号体系 / PART NUMBER

| | | | | | |
|-----------------------|----------------|---------------------|----------------------------------|---------------|-------------------|
| □□□ | TXV | □□□□□ | 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 | 铝壳尺寸 Case Size |