# 贴片型铝电解电容器
## CHIP ALUMINUM ELECTROLYTIC CAPACITORS

Rubycon

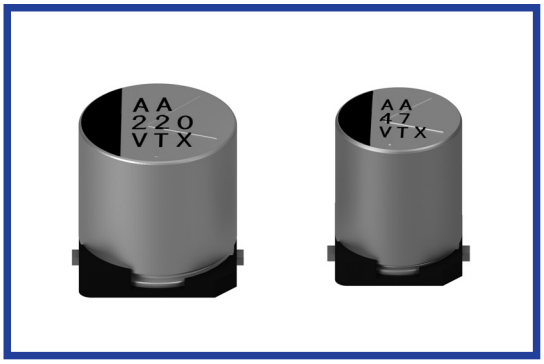
**TXV**

## TXV 系列 SERIES

**125℃ 1000～2000小时、低ESR品**
**Load Life : 125℃ 1000～2000 hours Low ESR**

・可对应AEC-Q200。
AEC-Q200.

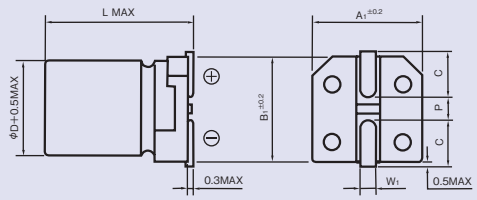
RoHS compliance




### ◆规格表／SPECIFICATIONS

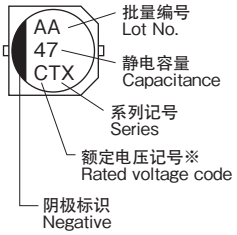
| 项　目 Items | 特　性 Characteristics |
|---|---|
| 工作温度范围 Category Temperature Range | −40～+125℃ |
| 额定电压范围 Rated Voltage Range | 10～35Vdc |
| 静电容量允许差 Capacitance Tolerance | ±20%(20℃,120Hz) |
| 漏　电　流 Leakage Current(MAX) | 小于I=0.01CV和3μA中的较大值（施加额定电压2分钟后）<br>I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage)<br>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 (tanδ) Dissipation Factor(MAX) | 额定电压(Vdc) Rated Voltage: 10 / 16 / 25 / 35<br>tanδ: 0.3 / 0.2 / 0.18 / 0.16　(20℃,120Hz) |
| 耐　久　性 Endurance | 在125℃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。<br>After applying rated voltage with rated ripple current for specified time at 125℃, the capacitors shall meet the following requirements.<br>静电容量变化率 Capacitance Change: 初期值的±30%以内 Within ±30% of the initial value.<br>损失角正切值 Dissipation Factor: 规格值的300%以下 Not more than 300% of the specified value.<br>漏　电　流 Leakage Current: 规格值以下 Not more than the specified value.<br>铝壳尺寸 Case Size / 时间(hrs) LifeTime: φD=6.3 / 1000; φD≧8 / 2000 |
| 低温特性 Low Temperature Stability (阻抗比) Impedance Ratio(MAX) | 额定电压(Vdc) Rated Voltage: 10 / 16 / 25 / 35<br>Z(−40℃)/Z(20℃): 6 / 4 / 4 / 3　(120Hz) |

### ◆尺寸图／DIMENSIONS (mm)




| φD | L | A1 | B1 | C | W1 | P |
|---|---|---|---|---|---|---|
| 6.3 | 6.1 | 6.6 | 6.6 | 2.7 | 0.5～0.8 | 1.8 |
| 6.3 | 8 | 6.6 | 6.6 | 2.7 | 0.5～0.8 | 1.8 |
| 8 | 10.5 | 8.3 | 8.3 | 2.9 | 0.8～1.1 | 3.1 |
| 10 | 10.5 | 10.3 | 10.3 | 3.2 | 0.8～1.1 | 4.5 |

### ◆标识／MARKING




※电压记号　Voltage Code

| 额定电压(Vdc) Rated Voltage | 10 | 16 | 25 | 35 |
|---|---|---|---|---|
| 额定电压记号 Rated Voltage code | A | C | E | V |

### ◆纹波电流补正系数／MULTIPLIER FOR RIPPLE CURRENT

| 频率(Hz) Frequency | | 120 | 1k | 10k | 100k≦ |
|---|---|---|---|---|---|
| 系数 Coefficient | 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 φD×L(mm), Rated Ripple Current (mA r.m.s./125℃, 100kHz), ESR(Ω MAX/100kHz)

| Vdc | Cap (μF) | Size (φDxL) | Ripple | ESR 20℃ | ESR -40℃ |
|---|---|---|---|---|---|
| 10 | 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 | 47 | 6.3×6.1 | 70 | 1 | 15 |
| | | 6.3×8 | 140 | 0.3 | 5 |

| Vdc | Cap (μF) | Size (φDxL) | Ripple | ESR 20℃ | ESR -40℃ |
|---|---|---|---|---|---|
| 25 | 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 |

| Vdc | Cap (μF) | Size (φDxL) | Ripple | ESR 20℃ | ESR -40℃ |
|---|---|---|---|---|---|
| 35 | 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 |
| | | 10×10.5 | 420 | 0.1 | 1.5 |
| | 220 | 10×10.5 | 300 | 0.2 | 3 |

### ◆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 |