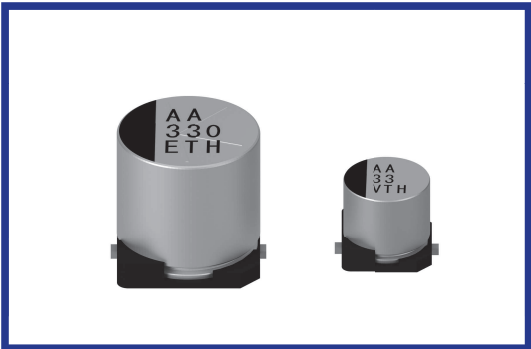


THV series

125°C 2000~3000時間 低ESR品  
Load Life : 125°C 2000~3000 hours Low ESR

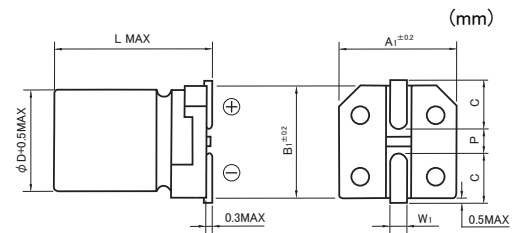
AEC-Q200



◆規格表 / SPECIFICATIONS

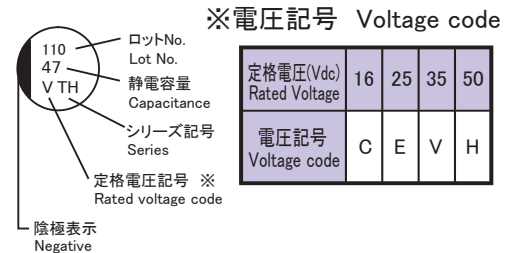
| 項目 Item  | 特性 Characteristics   |  |      |      |      |               |
|--|--|--|------|------|------|---------------|
| カテゴリ温度範囲<br>Category Temperature Range                                   | -40~+125°C   |  |      |      |      |               |
| 定格電圧範囲<br>Rated Voltage Range  | 16~50Vdc   |  |      |      |      |               |
| 静電容量許容差<br>Capacitance Tolerance   | ±20% (20°C, 120Hz)   |  |      |      |      |               |
| 漏れ電流<br>Leakage Current (MAX)  | I=0.01CV 又は 3μA のいずれか大なる値以下 (定格電圧印加2分後)<br>I=0.01CV or 3μA whichever is greater. (After 2 minutes)<br>I=漏れ電流(μA) C=静電容量(μF) V=定格電圧(Vdc)<br>Leakage Current Capacitance Rated Voltage |  |      |      |      |               |
| 損失角の正接<br>(tan δ)<br>Dissipation Factor(MAX)                             | 定格電圧 (Vdc)<br>Rated Voltage  | 16   | 25   | 35   | 50   | (20°C, 120Hz) |
|  | tan δ  | 0.23   | 0.18 | 0.16 | 0.14 |               |
| 耐久性<br>Endurance   | 125°C中で表の時間定格電圧(リップル重量)印加後、下記項目を満足すること。<br>After applying rated voltage with rated ripple current for specified time at 125°C, the capacitors shall meet the following requirements. |  |      |      |      |               |
|  | 静電容量変化率<br>Capacitance Change  | 初期値の±30%以内<br>Within ±30% of the initial value.          |      |      |      |               |
|  | 損失角の正接<br>Dissipation Factor   | 規格値の300%以下<br>Not more than 300% of the specified value. |      |      |      |               |
|  | 漏れ電流<br>Leakage Current  | 規格値以下<br>Not more than the specified value.              |      |      |      |               |
|  | ケースサイズ<br>Case Size  | 時間(hrs)<br>LifeTime                                      |      |      |      |               |
|  | φD=6.3   | 2000   |      |      |      |               |
|  | φD≥8   | 3000   |      |      |      |               |
| 低温特性<br>Low Temperature Stability<br>(インピーダンス比)<br>Impedance Ratio (MAX) | 定格電圧 (Vdc)<br>Rated Voltage  | 16   | 25   | 35   | 50   | (120Hz)       |
|  | Z(-40°C) / Z(20°C)   | 4  | 4    | 3    | 3    |               |

◆寸法図 / DIMENSIONS



| 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 |

◆表示 / MARKING



◆リップル電流補正係数 / MULTIPLIER FOR RIPPLE CURRENT

| 周波数 (Hz)<br>Frequency | 120  | 1k   | 10k  | 100k≤ |
|-----------------------|------|------|------|-------|
| 10~33 μF              | 0.45 | 0.75 | 0.90 | 1.00  |
| 47~100 μF             | 0.50 | 0.80 | 0.95 | 1.00  |
| 220~330 μF            | 0.60 | 0.85 | 0.95 | 1.00  |

◆呼称方法 / PART NUMBER



◆標準品一覧表 / STANDARD SIZE

Size φD x L(mm), Rated Ripple Current (mA r.m.s./125°C, 100kHz), ESR(Ω MAX/100kHz)

| Vdc | Cap (μF) | Size (φDXL) | Ripple  | ESR  |       |    |
|-----|----------|-------------|---------|------|-------|----|
|     |          |             |         | 20°C | -40°C |    |
| 16  | 33       | 6.3x6.1     | 70      | 1    | 15    |    |
|     | 47       | 6.3x8       | 200     | 0.7  | 10    |    |
|     |          |             | 200     | 0.7  | 10    |    |
|     | 100      | 8x10.5      | 300     | 0.3  | 4.5   |    |
|     |          |             | 300     | 0.3  | 4.5   |    |
|     |          |             | 500     | 0.2  | 3     |    |
|     | 25       | 10x10.5     | 500     | 0.2  | 3     |    |
| 33  |          |             | 6.3x6.1 | 70   | 1     | 15 |
| 33  |          |             | 6.3x8   | 200  | 0.7   | 10 |

| Vdc | Cap (μF) | Size (φDXL) | Ripple  | ESR  |       |    |
|-----|----------|-------------|---------|------|-------|----|
|     |          |             |         | 20°C | -40°C |    |
| 25  | 220      | 8x10.5      | 300     | 0.3  | 4.5   |    |
|     |          | 10x10.5     | 500     | 0.2  | 3     |    |
|     |          | 10x10.5     | 500     | 0.2  | 3     |    |
|     | 35       | 22          | 6.3x8   | 200  | 0.7   | 10 |
|     |          |             | 6.3x6.1 | 70   | 1     | 15 |
| 35  | 33       | 6.3x8       | 200     | 0.7  | 10    |    |
|     |          | 6.3x8       | 200     | 0.7  | 10    |    |
|     | 47       | 8x10.5      | 300     | 0.3  | 4.5   |    |
|     |          | 8x10.5      | 300     | 0.3  | 4.5   |    |
|     |          | 500         | 0.2     | 3    |       |    |
| 100 | 10x10.5  | 500         | 0.2     | 3    |       |    |
|     |          | 500         | 0.2     | 3    |       |    |

| Vdc | Cap (μF) | Size (φDXL) | Ripple | ESR  |       |
|-----|----------|-------------|--------|------|-------|
|     |          |             |        | 20°C | -40°C |
| 50  | 10       | 6.3x6.1     | 70     | 1    | 15    |
|     |          | 6.3x8       | 150    | 0.9  | 10    |
|     | 22       | 6.3x8       | 150    | 0.9  | 10    |
|     |          |             | 250    | 0.36 | 4.5   |
|     | 33       | 8x10.5      | 250    | 0.36 | 4.5   |
|     |          |             | 350    | 0.25 | 3     |
|     |          |             | 350    | 0.25 | 3     |
| 100 | 10x10.5  | 350         | 0.25   | 3    |       |
|     |          | 350         | 0.25   | 3    |       |