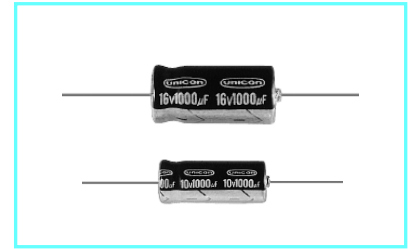


HST シリーズ 02 形高温度範囲品

Series, 125°C, Axial Lead, High Temperature

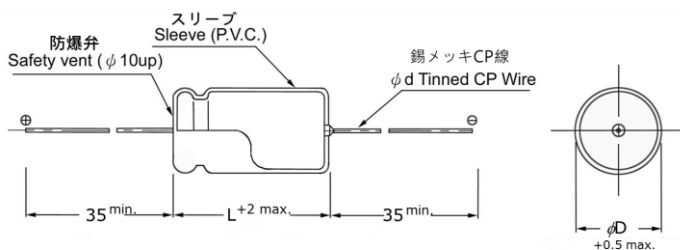
- 自動車電装及び高信頼性機器用品
Suited for telecommunication equipment and automobile electronics.
- 125°C 2,000時間保証 ($\phi D \geq 10$)
Load life: 2,000 hours
- 定格電圧範囲 Rated voltage range : 10 ~ 63V
- 静電容量範囲 Capacitance range : 1 ~ 4,700 μ F
- RoHS指令対応済/RoHS Compliant



仕様 SPECIFICATIONS

| 項目 Items | 特性 Characteristics | | | | | | | |
|--|---|--|------|------|------|------|------|--------------|
| カテゴリ温度範囲 Operating Temperature Range | -40 ~ +125°C | | | | | | | |
| 定格電圧範囲 Rated Voltage Range | 10V ~ 63V | | | | | | | |
| 静電容量範囲 Nominal Capacitance Range | 1 ~ 4,700 μ F | | | | | | | |
| 静電容量許容差 Capacitance Tolerance | $\pm 20\%$ (120Hz, 20°C) | | | | | | | |
| 漏れ電流 Leakage Current | $I \leq 0.03CV$ 又は $4 \mu A$ のいずれか大きい値以下 (1分値) $I \leq 0.03CV$ or $4 \mu A$ whichever is greater, after 1 minute application of rated voltage. $I \leq 0.01CV$ 又は $3 \mu A$ のいずれか大きい値以下 (2分値) $I \leq 0.01CV$ or $3 \mu A$ whichever is greater, after 2 minutes application of rated voltage. | | | | | | | |
| 損失角の正接 Dissipation Factor | 定格電圧(V) Rated voltage | 10 | 16 | 25 | 35 | 50 | 63 | 120 Hz, 20°C |
| | $\tan \delta$ (max.) | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.10 | |
| 1,000 μ F を越えるものについては、1,000 μ F を増す毎に 0.02 を加えた値とする。 For capacitance of more than 1,000 μ F, add 0.02 for every increase of 1,000 μ F | | | | | | | | |
| 温度特性 Temperature Characteristics | インピーダンス比 Impedance Ratio | | | | | | | |
| | 定格電圧(V) Rated voltage | 10 | 16 | 25 | 35 | 50 | 63 | 120 Hz |
| | $Z(-25^\circ C) / Z(+20^\circ C)$ | 3 | 2 | 2 | 2 | 2 | 2 | |
| $Z(-40^\circ C) / Z(+20^\circ C)$ | 4 | 4 | 4 | 4 | 4 | 4 | | |
| 高温負荷特性 Load Life | 125°C 2,000 時間定格電圧連続印加後、20°C に戻し測定を行ったとき、下記項目を満足する (但し、 $\phi D \leq 8$ は 1,000 時間) After 2,000 hours ($\phi D \leq 8$, 1,000 hours) application of rated voltage at 125°C, capacitor meet the characteristic requirements as below. | | | | | | | |
| | 静電容量変化率 Capacitance change | 初期値の $\pm 20\%$ 以内 Within $\pm 20\%$ of initial value | | | | | | |
| | 損失角の正接 Dissipation Factor | 初期規格値の 200%以下 200% or less of initial specified value | | | | | | |
| | 漏れ電流 Leakage current | 初期規格値以下 Initial specified value or less | | | | | | |
| 高温無負荷特性 Shelf Life | 125°C 1,000 時間無負荷放置後、下記規格を満足する。(但し、JIS C-5102 4.4 項の電圧処理後) After storing the capacitors under no load at 125°C for 1,000 hours, capacitors meet the characteristic requirements as below. Be sure to apply voltage to the capacitors before test according to JIS-C-5101-4 4.1 | | | | | | | |
| | 静電容量変化率 Capacitance change | 初期値の $\pm 20\%$ 以内 Within $\pm 20\%$ of initial value | | | | | | |
| | 損失角の正接 Dissipation Factor | 初期規格値の 200%以下 200% or less of initial specified value | | | | | | |
| | 漏れ電流 Leakage current | 初期規格値以下 Initial specified value or less | | | | | | |
| 表示 Marking | 黒色チューブに白色印刷 White print on black sleeve. | | | | | | | |
| 関連規格 Applicable standard | JIS C-5141 特性W Characteristics W of JIS C-5141 | | | | | | | |

寸法図 Dimensions



unit: mm

| ϕD | 8 | 10 | 12.5 | 16 |
|----------|-----|-----|------|-----|
| ϕd | 0.6 | 0.6 | 0.6 | 0.8 |

■ 品名コード体系 Part Numbering (例 example: 25V 1000 μF)

| | | | | | | | | | | |
|----------------------|---|---|-----------------------|---|---------------------|---|--|---|------------------|--|
| H | S | T | 1 | E | 1 | 0 | 2 | M | | |
| シリーズ名 Series Name | | | 定格電圧 Rated Voltage | | 静電容量 Capacitance | | 容量許容差 Capacitance Tolerance (±20%) | | 個別指定 Reserved | |

■ 寸法表 Standard Products Table

| Cap. (μF) | W.V. Code | 10 (1A) | | 16 (1C) | | 25 (1E) | | 35 (1V) | | 50 (1H) | | 63 (1J) | |
|-----------|--------------|------------|------|------------|------|------------|------|------------|-----|------------|------|------------|------|
| | | 1 | 1R0 | | | | | | | | | 8 x 16 | 10 |
| 2.2 | 2R2 | | | | | | | | | 8 x 16 | 22 | | |
| 3.3 | 3R3 | | | | | | | | | 8 x 16 | 27 | | |
| 4.7 | 4R7 | | | | | | | | | 8 x 16 | 32 | | |
| 10 | 100 | | | | | | | | | 8 x 16 | 47 | | |
| 22 | 220 | | | | | | | | | 8 x 16 | 70 | | |
| 33 | 330 | | | | | | | | | 8 x 16 | 85 | | |
| 47 | 470 | | | | | | | | | 8 x 16 | 105 | 8 x 20 | 120 |
| 100 | 101 | | | | | 8 x 16 | 125 | 8 x 20 | 160 | 8 x 20 | 180 | 10 x 21 | 200 |
| 220 | 221 | 8 x 16 | 155 | 8 x 20 | 210 | 8 x 20 | 220 | 10 x 21 | 260 | 10 x 26 | 320 | 12.5 x 26 | 360 |
| 330 | 331 | 8 x 20 | 220 | 8 x 20 | 250 | 10 x 21 | 300 | 10 x 26 | 350 | 12.5 x 26 | 430 | 12.5 x 31 | 480 |
| 470 | 471 | 8 x 20 | 270 | 10 x 21 | 330 | 10 x 26 | 390 | 12.5 x 26 | 470 | 12.5 x 31 | 570 | 16 x 31 | 650 |
| 1000 | 102 | 10 x 26 | 470 | 12.5 x 26 | 590 | 12.5 x 31 | 700 | 16 x 31 | 850 | 16 x 41 | 1030 | | |
| 2200 | 222 | 12.5 x 31 | 820 | 16 x 31 | 1030 | 16 x 41 | 1210 | | | | | | |
| 3300 | 332 | 16 x 31 | 1090 | 16 x 41 | 1330 | | | | | | | | |
| 4700 | 472 | 16 x 41 | 1390 | | | | | | | | | Size (mm) | R.C. |

Allowable Ripple Current/定格リップル電流 (mArms) at 125°C 120Hz

● 許容リップル電流の周波数補正係数 Frequency coefficient of allowable ripple current

| Cap (μF) | Frequency | 50 Hz | 120 Hz | 300 Hz | 1 KHz | 10 KHz~ |
|-------------|-----------|-------|--------|--------|-------|---------|
| 1 ~ 47 | | 0.75 | 1.00 | 1.35 | 1.57 | 2.00 |
| 100 ~ 470 | | 0.80 | 1.00 | 1.23 | 1.34 | 1.50 |
| 1000 ~ 4700 | | 0.85 | 1.00 | 1.10 | 1.13 | 1.15 |