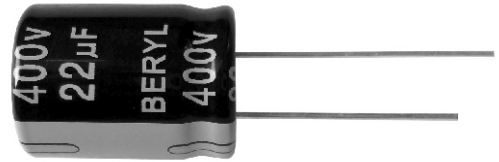


**TB Series**

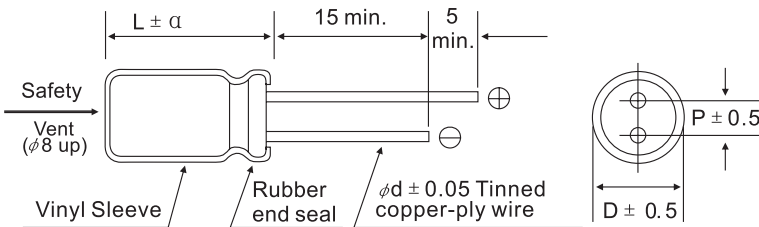
- Endurance with ripple current : 105°C 3,000 hours
- Especially designed for electronic ballast
- Low cost economical
- RoHS Compliant



■ 規格表 SPECIFICATIONS

| 項目 Items   | 特性參數 Characteristics  |                               |   |
|--|---|-------------------------------|---|
| 使用溫度範圍<br>Category<br>Temperature Range                              | -40 ~ +105°C (160 ~ 400V)   |                               |   |
| 額定工作電壓範圍<br>Rated Voltage Range                                      | 160 ~ 400V  |                               |   |
| 靜電容量允許偏差<br>Capacitance Tolerance                                    | ±20% (M) (at 20°C, 120Hz)   |                               |   |
| 漏電流<br>Leakage Current   | Time  | After 2minute<br>2分鐘讀數        | after application of rated Voltage for 2 minutes. 施加工作電壓2分鐘後讀數。<br><br>I:漏電流 (µA)、C: 靜電容量 (µF)、額定電壓 (V) |
|  | CV  | I=0.02CV+25                   |   |
| 損耗角正切值tan δ<br>Dissipation Factor                                    | Rated voltage(V)  | 160~250                       | 350~400   |
|  | tan δ (Max.)  | 0.15                          | 0.20  |
| 低溫特性<br>Low temperature<br>Characteristics<br>(Max. Impedance Ratio) | 電容器低溫的阻抗比值，不應超過下表所列出的值 Impedance ratio values must not exceed values listed in below table.   |                               |   |
|  | Rated voltage(V)  | 160~250                       | 350~400   |
|  | Z(-25°C)/Z(+20°C)   | 3                             | 5   |
|  | Z(-40°C)/Z(+20°C)   | 6                             | 6   |
| 耐久性<br>Endurance   | 施加額定工作電壓和最大允許紋波電流，經恢復20°C後測試產品性能應滿足以下要求<br>The following specifications shall be satisfied when the capacitors are restored at 20°C after subjected to DC voltage with the rated ripple current is applied. |                               |   |
|  | Capacitance change  | ≅ ±20% of the initial value   |   |
|  | D.F.(tan δ)   | ≅ 200% of the specified value |   |
|  | Leakage current   | ≅ The specified value         |   |
| 高溫儲存特性<br>Shelf Life   | 105°C 無負荷放置1000小時，經恢復20°C後測試產品性能應滿足以下要求<br>The following specifications shall be satisfied when the capacitors are restored at 20°C after exposing them for 1000 hours at 105°C without voltage applied.    |                               |   |
|  | Capacitance change  | ≅ ±20% of the initial value   |   |
|  | D.F.(tan δ)   | ≅ 200% of the specified value |   |
|  | Leakage current   | ≅ 500% of the specified value |   |

■ 外形圖 DIMENSIONS (mm)



|    |     |     |     |     |
|----|-----|-----|-----|-----|
| ΦD | 6.3 | 8   | 10  | 13  |
| P  | 2.5 | 3.5 | 5.0 | 5.0 |
| Φd | 0.5 | 0.5 | 0.6 | 0.6 |

|   |              |
|---|--------------|
| α | (L < 20) 1.5 |
|   | (L ≥ 20) 2.0 |

■ 紋波電流補正係數 RATED RIPPLE CURRENT COEFFICIENT

- 頻率係數 Frequency Coefficient

| Rated Voltage | Frequency(Hz) | 120  | 1k   | 10k  | 100k |
|---------------|---------------|------|------|------|------|
| 160 ~ 250V    |               | 0.54 | 0.86 | 0.90 | 1.00 |
| 350 ~ 400V    |               | 0.50 | 0.80 | 0.89 | 1.00 |

**TB Series**

■ 尺寸與最大紋波電流一覽表 STANDARD RATINGS

| WV(V)<br>Cap(μF) | 160(2C)   |     | 200(2D) |     | 250(2E) |     | 350(2V) |     | 400(2G) |     |
|------------------|---|-----|---------|-----|---------|-----|---------|-----|---------|-----|
| 1.0              | <p>Case size <math>\Phi</math>DxL (mm)</p> <p>Rated ripple current (mArms) at 105°C, 100KHz</p> |     |         |     |         |     | 6.3×11  | 50  | 6.3×11  | 50  |
| 1.5              |   |     |         |     |         |     | 8×12    | 53  | 6.3×11  | 55  |
| 1.8              |   |     |         |     |         |     | 8×12    | 55  | 8×12    | 65  |
| 2.2              |   |     |         |     |         |     | 8×12    | 60  | 8×12    | 70  |
| 2.8              |   |     |         |     |         |     | 8×16    | 70  | 8×16    | 75  |
| 3.3              |   |     | 6.3×11  | 70  | 8×16    | 73  | 8×16    | 80  |         |     |
| 4.7              | 8×12  | 85  | 8×12    | 85  | 10×16   | 90  | 10×16   | 100 |         |     |
| 5.6              | 8×12  | 90  | 8×16    | 90  | 10×16   | 105 | 10×16   | 110 |         |     |
| 6.8              | 8×16  | 90  | 8×16    | 95  | 10×16   | 130 | 10×16   | 140 |         |     |
| 8.2              | 8×16  | 100 | 8×16    | 100 | 10×16   | 175 | 10×16   | 190 |         |     |
| 10               | 8×16  | 180 | 10×13   | 190 | 10×13   | 200 | 10×20   | 210 | 10×20   | 210 |
| 15               | 8×16  | 210 | 10×16   | 220 | 10×16   | 228 |         |     | 10×20   | 275 |
| 22               | 10×16   | 220 | 10×20   | 255 | 10×20   | 262 |         |     | 13×20   | 365 |
| 33               | 10×20   | 255 | 10×20   | 305 | 13×20   | 285 |         |     | 13×25   | 410 |
| 47               | 10×20   | 330 | 13×20   | 335 | 13×25   | 340 |         |     |         |     |