



**THT, Radial E-Cap., Snap-In, Long Life, Load Life of 5000hrs, at 105°C , ROHS Conform, Packing Box**

| Items                                                                          |                    | Performance Characteristics                                                                       |      |      |      |      |      |      |         |         |         |  |
|--------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------|------|------|------|------|------|------|---------|---------|---------|--|
| Operating temperature range                                                    |                    | -40°C +105°C (10~250V, -25°C ~ +105°C ( 350~500V)                                                 |      |      |      |      |      |      |         |         |         |  |
| Leakage current max.                                                           |                    | I=3 √cv (μA) (after 5 minutes)                                                                    |      |      |      |      |      |      |         |         |         |  |
|                                                                                |                    |                                                                                                   |      |      |      |      |      |      |         |         |         |  |
| Capacitance tolerance                                                          |                    | ±20% at 120Hz, 20°C                                                                               |      |      |      |      |      |      |         |         |         |  |
| Dissipation factor max.<br>(at 120Hz, 20°C)                                    | WV                 |                                                                                                   | 10   | 16   | 25   | 35   | 50   | 63   | 80, 100 | 160~400 | 450~500 |  |
|                                                                                | TanQ               |                                                                                                   | 0,55 | 0,50 | 0,40 | 0,35 | 0,30 | 0,25 | 0,20    | 0,15    | 0,20    |  |
|                                                                                |                    |                                                                                                   |      |      |      |      |      |      |         |         |         |  |
|                                                                                |                    |                                                                                                   |      |      |      |      |      |      |         |         |         |  |
| Load life ( after application of the<br>rated voltage for 5000hrs at<br>105°C) | Leakage Current    | Less than specified Value                                                                         |      |      |      |      |      |      |         |         |         |  |
|                                                                                | Capacitance Change | Within ±25% off initial Value                                                                     |      |      |      |      |      |      |         |         |         |  |
|                                                                                | TanQ               | Less than 250% of specified value                                                                 |      |      |      |      |      |      |         |         |         |  |
|                                                                                |                    |                                                                                                   |      |      |      |      |      |      |         |         |         |  |
| Shelf life (at 105°C)                                                          |                    | After 1000 hours no load test, leakage current, capacitance and tanQ are same as load life value. |      |      |      |      |      |      |         |         |         |  |

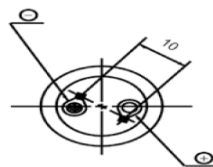
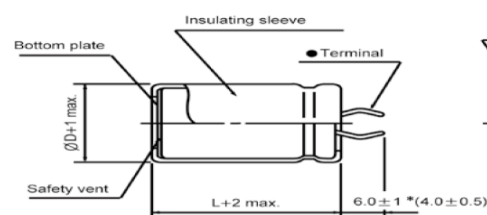
**FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT**

| WV        | Frequency | 50HZ | 120Hz | 300Hz | 1kHz |  | 10kHz≤ |
|-----------|-----------|------|-------|-------|------|--|--------|
| ~ 100     |           | 0,85 | 1,00  | 1,06  | 1,15 |  | 1,20   |
| 160 ~ 250 |           | 0,85 | 1,00  | 1,20  | 1,25 |  | 1,45   |
| 350 ~     |           | 0,85 | 1,00  | 1,15  | 1,20 |  | 1,40   |
|           |           |      |       |       |      |  |        |
|           |           |      |       |       |      |  |        |

**Technical Details**

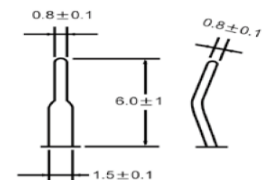
|                                   |                 |        |      |
|-----------------------------------|-----------------|--------|------|
| Range (μF)                        | 120             | ØD(mm) | 22,0 |
| Voltage                           | 500             | L(mm)  | 50,0 |
| Impedance (Ω)                     | -. -            | F(mm)  | 10,0 |
| Ripple Current (mA)               | 1,08            | Ød(mm) | 0    |
| ESR (Ω) max.at 20°C 10KHz         | -. -            | α(mm)  | 0    |
| Lifetime (hrs)                    | 5000            |        | 2,0  |
| Operating- Temperature Range (°C) | -.25°C ~ +105°C |        | -. - |

ØD≤40



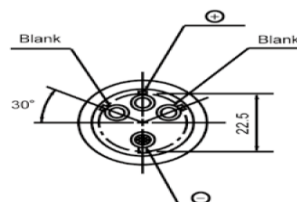
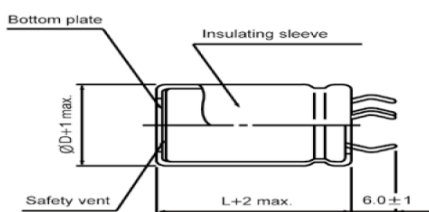
PC Board  
Mounting Holes

Terminal

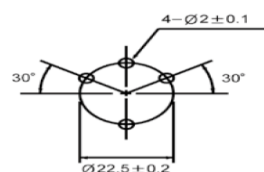


\* Shorter terminal(4.0±0.5) is also available upon request.  
Terminal length of height 20mm products is applied shorter terminal to standard terminal type.

ØD=35, 40



PC Board  
Mounting Holes



|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW:  | Lexua | CHKD | Wilson | MATL:  | ChuChu | DATE  | 15.01.2025 |
| APPD: | Jimmy |      |        | FINISH | Josy   | Sheet | 1 from 2   |

Copyright by S.Tiede



THT, Radial E-Cap., Snap-In, Long Life, Load Life of 5000hrs, at 105°C , ROHS Conform, Packing Box

### Ordering Informations:

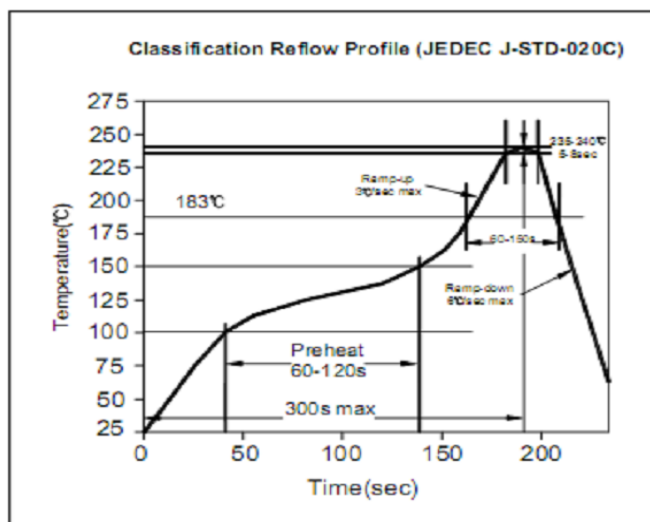
| Serie-No. / Voltage / Range / Size | Capacity Tolerance | ROHS | Packing |
|------------------------------------|--------------------|------|---------|
|------------------------------------|--------------------|------|---------|

|                   |   |   |    |
|-------------------|---|---|----|
| I14085-5011212250 | M | R | BU |
|-------------------|---|---|----|

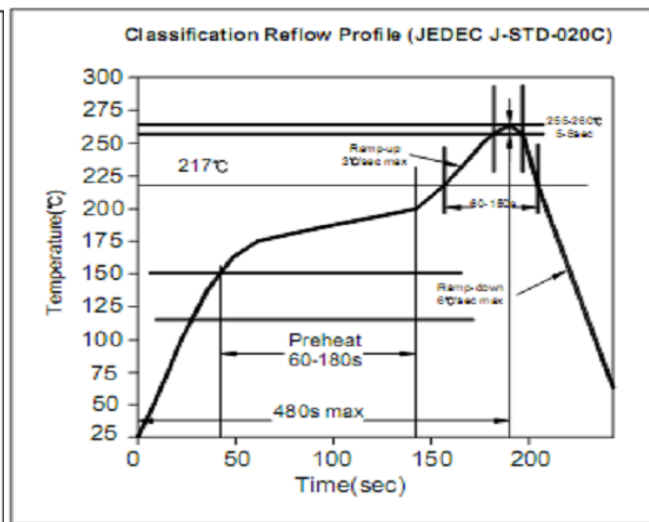
| Serie | Voltage (V) | Range $\mu$ H) | D * L (mm) | Tolerance Order Code | R= ROHS<br>N= NON ROHS | BU= Bulk-Ware (Box) |
|-------|-------------|----------------|------------|----------------------|------------------------|---------------------|
|       |             |                |            |                      |                        |                     |
|       |             |                |            |                      |                        |                     |

### Soldering Information

#### Lead Solder Performance



#### Lead free Solder Performance



|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW:  | Lexua | CHKD | Wilson | MATL:  | ChuChu | DATE  | 15.01.2025 |
| APPD: | Jimmy |      |        | FINISH | Josy   | Sheet | 2 from 2   |