



**THT, Radial E-Cap., Snap-In, Long Life, Low Impedance, Highly ripple, High Reliability, Load Life 3000 hours at 105°C, ROHS Conform, Packing Box**

| Items                                                                    |                    | Performance Characteristics                               |      |      |      |      |      |        |         |      |  |
|--------------------------------------------------------------------------|--------------------|-----------------------------------------------------------|------|------|------|------|------|--------|---------|------|--|
| Operating temperature range                                              |                    | -40°C ~ +105°C (10V ~ 250V); -25°C ~ +105°C (350V ~ 450V) |      |      |      |      |      |        |         |      |  |
| Leakage current max.                                                     |                    | $I = 3\sqrt{CV} \mu A$ (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 | 200~400 | 450  |  |
|                                                                          | 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 rated voltage for 3000hrs at 105°C) | Leakage Current    | Less than specified Value                                 |      |      |      |      |      |        |         |      |  |
|                                                                          | Capacitance Change | Within ±20% off initial Value                             |      |      |      |      |      |        |         |      |  |
|                                                                          | TanQ               | Less than 200% of specified value                         |      |      |      |      |      |        |         |      |  |
| Shelf life (at 105°C)                                                    | Leakage Current    | Less than specified Value                                 |      |      |      |      |      |        |         |      |  |
|                                                                          | Capacitance Change | Within ±20% off initial Value                             |      |      |      |      |      |        |         |      |  |
|                                                                          | TanQ               | Less than 200% of specified value                         |      |      |      |      |      |        |         |      |  |

**FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT**

| WV        | Frequency | 50HZ | 120Hz | 300Hz | 1kHz |  | 10kHz≤ |
|-----------|-----------|------|-------|-------|------|--|--------|
| 10 ~ 100  |           | 0,90 | 1,00  | 1,06  | 1,15 |  | 1,25   |
| 160 ~ 250 |           | 0,85 | 1,00  | 1,20  | 1,25 |  | 1,45   |
| 350 ~ 450 |           | 0,85 | 1,00  | 1,15  | 1,20 |  | 1,40   |
|           |           |      |       |       |      |  |        |
|           |           |      |       |       |      |  |        |

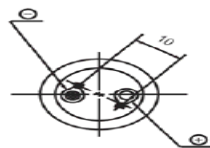
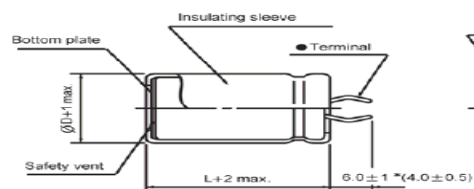
**Technical Details**

|                                   |                |        |      |
|-----------------------------------|----------------|--------|------|
| Range (μF)                        | 47             | ØD(mm) | 22,0 |
| Voltage                           | 450            | L(mm)  | 25,0 |
| Impedance (Ω)                     | 3,39           | F(mm)  | 10,0 |
| Ripple Current (mA)               | 0,41           | Ød(mm) | 0    |
| ESR (Ω) max.at 20°C 10KHz         | 2,28           | α(mm)  | 0    |
| Lifetime (hrs)                    | 3000           | -.-    | 2,0  |
| Operating- Temperature Range (°C) | -25°C ~ +105°C | -.-    | -.-  |

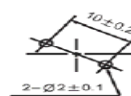
**DRAWING**

Unit : mm

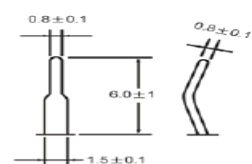
ØD ≤ 40



PC Board Mounting Holes

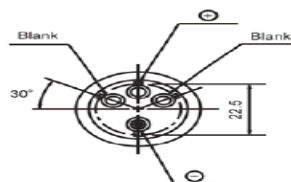
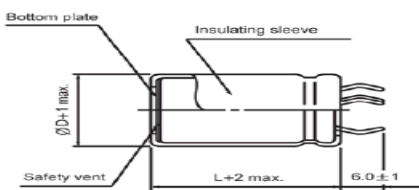


Terminal

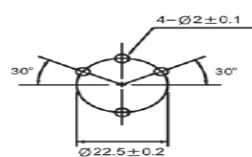


\* Shorter terminal (4.0 ± 0.5) is also available upon request.  
Terminal length of height 20mm products is applied shorter terminal to standard terminal type.

ØD = 35, 40



PC Board Mounting Holes



|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW:  | Lexua | CHKD | Wilson | MATL:  | ChuChu | DATE  | 17.01.2025 |
| APPD: | Jimmy |      |        | FINISH | Josy   | Sheet | 1 from 2   |

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### Ordering Informations:

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

|                   |   |   |    |
|-------------------|---|---|----|
| I14122-4514702225 | M | R | BU |
|-------------------|---|---|----|

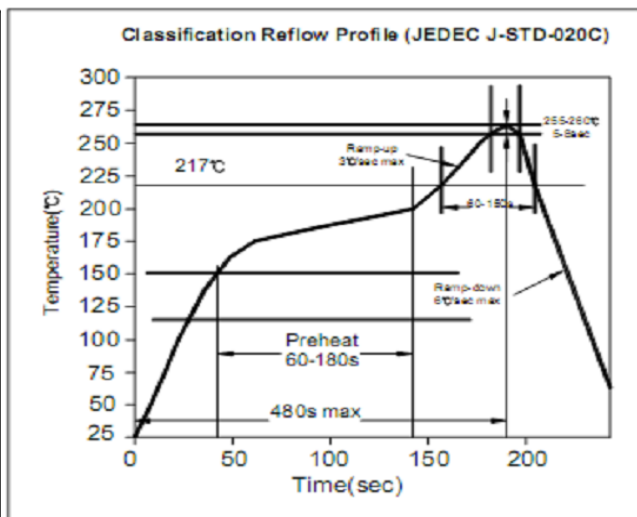
| Serie | Voltage (V) | Range $\mu$ H) | D * L (mm) | Tolerance Order Code | R= ROHS<br>N= NON ROHS | BU= Bulk-Ware (Box) |
|-------|-------------|----------------|------------|----------------------|------------------------|---------------------|
|       |             |                |            |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

### Soldering Information

#### Lead Solder Performance



#### Lead free Solder Performance



|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW:  | Lexua | CHKD | Wilson | MATL:  | ChuChu | DATE  | 17.01.2025 |
| APPD: | Jimmy |      |        | FINISH | Josy   | Sheet | 2 from 2   |