



**THT, Radial E-Cap., Snap-In, Long Life, Best for switching Power Supplies, Load Life 3000 hours at 85°C , ROHS Conform, Packing Box**

| Items                                                                   |                               | Performance Characteristics                            |      |      |      |      |      |                                   |         |      |  |
|-------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------|------|------|------|------|------|-----------------------------------|---------|------|--|
| Operating temperature range                                             |                               | -40°C +85°C (10V ~ 250V); -25°C ~ +85°C ( 350V ~ 450V) |      |      |      |      |      |                                   |         |      |  |
| 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  |  |
|                                                                         | 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 85°C) | Leckage Current               |                                                        |      |      |      |      |      | Less than specified Value         |         |      |  |
|                                                                         | Capacitance Change            |                                                        |      |      |      |      |      | Within ±20% off initial Value     |         |      |  |
|                                                                         | TanQ                          |                                                        |      |      |      |      |      | Less than 200% of specified value |         |      |  |
| Shelf life (at 85°C)                                                    | Leckage 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  |           | 0,95 | 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   |
|           |           |      |       |       |      |  |        |
|           |           |      |       |       |      |  |        |

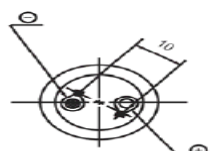
**Technical Details**

|                                   |                |        |      |
|-----------------------------------|----------------|--------|------|
| Range (μF)                        | 180            | ØD(mm) | 30,0 |
| Voltage                           | 450            | L(mm)  | 40,0 |
| Impedance (Ω)                     | -. -           | F(mm)  | 10,0 |
| Ripple Current (mA)               | 1,14           | Ød(mm) | 0    |
| ESR (Ω) max.at 20°C 10KHz         | -. -           | α(mm)  | 0    |
| Lifetime (hrs)                    | 3000           |        | 2,0  |
| Operating- Temperature Range (°C) | -.25°C ~ +85°C |        | -. - |

● **DRAWING**

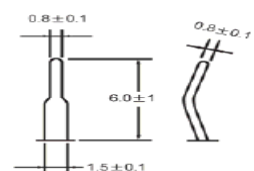
Unit : mm

ØD≤40



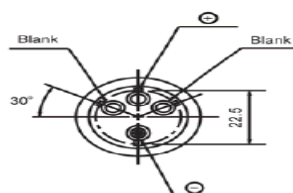
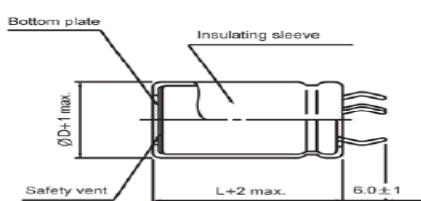
PC Board  
Mounting Holes

Terminal

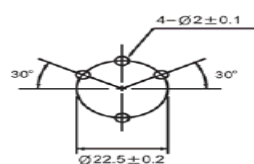


\* Shorter terminal(4.0±0.5) is also available upon request.  
Terminal length of height 20mm products is applied shorter terminal to standard terminal type.

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:

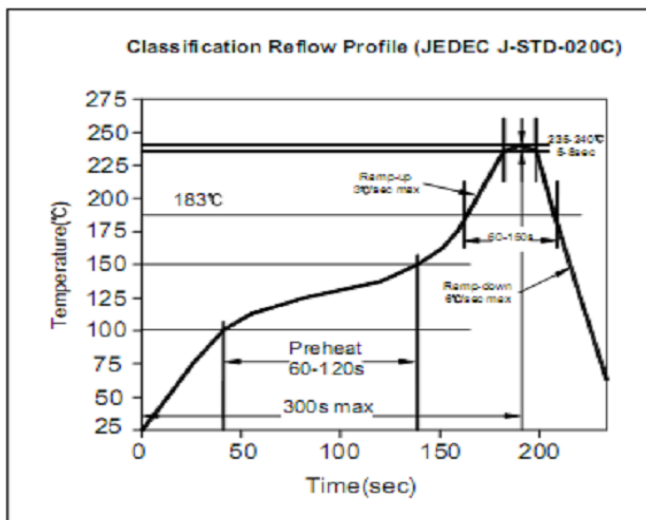
| Serie-No. / Voltage / Range / Size | Capacity Tolerance | ROHS | Packing |
|------------------------------------|--------------------|------|---------|
|------------------------------------|--------------------|------|---------|

|                   |   |   |    |
|-------------------|---|---|----|
| I14123-4511813030 | M | R | BU |
|-------------------|---|---|----|

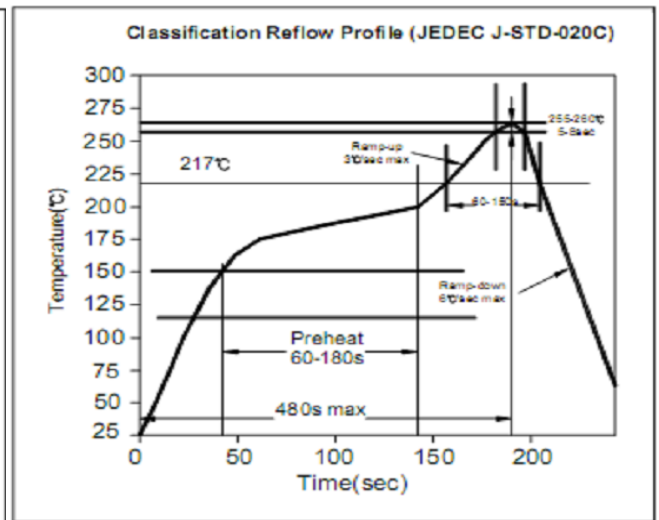
| Serie | Voltage (V) | Range $\mu$ H) | D * L (mm) | Tolerance Order Code | R= ROHS<br>N= NON ROHS | BU= Bulk-Ware (Box) |
|-------|-------------|----------------|------------|----------------------|------------------------|---------------------|
|       |             |                |            |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

### 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   |