



**THT, Radial E-Cap., High Reliability withstanding to 10000hours at 105°C, WV to 500V, Suitable for Slim application, Long Lead, ROHS Conform, Packing Bulk-Ware into Polybag**

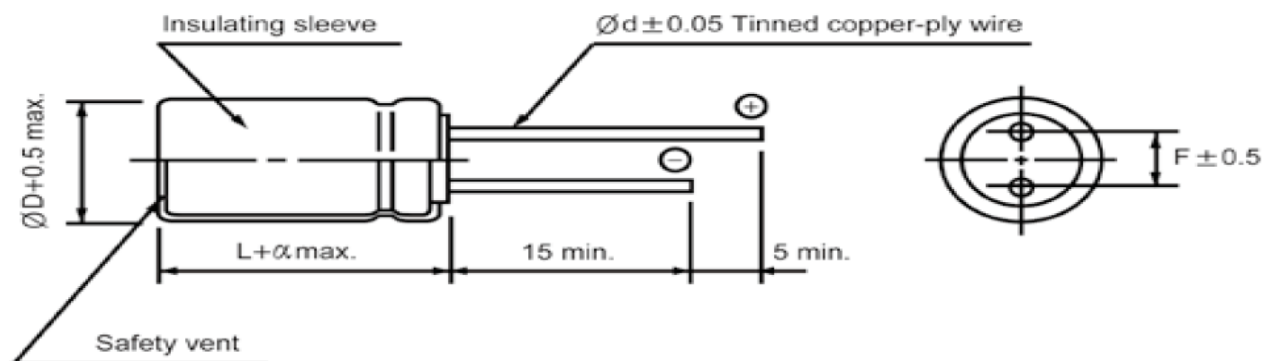
| Items                                                                     |                 | Performance Characteristics                                                                       |  |  |  |  |  |  |                                   |     |         |         |
|---------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------|--|--|--|--|--|--|-----------------------------------|-----|---------|---------|
| Operating temperature range                                               |                 | -40°C +105°C (250V) ; -25°C ~ +105°C (350~500V)                                                   |  |  |  |  |  |  |                                   |     |         |         |
| Leakage current max.                                                      |                 |                                                                                                   |  |  |  |  |  |  |                                   |     |         |         |
|                                                                           |                 | I = 0,02CV + 15µA (after 5 minutes)                                                               |  |  |  |  |  |  |                                   |     |         |         |
|                                                                           |                 |                                                                                                   |  |  |  |  |  |  |                                   |     |         |         |
| Capacitance tolerance                                                     |                 | ±20% at 120Hz, 20°C                                                                               |  |  |  |  |  |  |                                   |     |         |         |
| Dissipation factor max.<br>(at 120Hz, 20°C)                               |                 | Capacitance > 1000µF ; tanQ increases by 0,02 for each 1000µF from below value.                   |  |  |  |  |  |  |                                   |     |         |         |
|                                                                           |                 | WV                                                                                                |  |  |  |  |  |  |                                   |     | 250     | 350~500 |
|                                                                           |                 | TanQ                                                                                              |  |  |  |  |  |  |                                   |     | 0,15    | 0,20    |
| Low temperature characteristics (Impedance ratio at 120Jz)                | WV              |                                                                                                   |  |  |  |  |  |  |                                   | 250 | 350~500 |         |
|                                                                           | Z-25°C / Z+20°C |                                                                                                   |  |  |  |  |  |  |                                   | 3   | 8       |         |
|                                                                           | Z-40°C / Z+20°C |                                                                                                   |  |  |  |  |  |  |                                   | 4   | -       |         |
| Load life ( after application of the rated voltage for 10000hrs at 105°C) |                 | Leakage Current                                                                                   |  |  |  |  |  |  | Less than specified Value         |     |         |         |
|                                                                           |                 | Capacitance Change                                                                                |  |  |  |  |  |  | Within ±20% of initial value      |     |         |         |
|                                                                           |                 | TanQ                                                                                              |  |  |  |  |  |  | Less than 200% of specified value |     |         |         |
|                                                                           |                 | ø8, (250V)= 5000hours ø10~ø12,5 : (250V) 10000Hours,; 350~500V : 5000hours                        |  |  |  |  |  |  |                                   |     |         |         |
| 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**

|  |             |      |       |      |       |  |         |
|--|-------------|------|-------|------|-------|--|---------|
|  | Frequency   | 50HZ | 120Hz | 1kHz | 10kHz |  | 100kHz≤ |
|  | Coefficient | 0,75 | 1,00  | 1,35 | 1,50  |  | 2,00    |
|  |             |      |       |      |       |  |         |
|  |             |      |       |      |       |  |         |
|  |             |      |       |      |       |  |         |

**Technical Details**

|                                   |                |        |      |
|-----------------------------------|----------------|--------|------|
| Range (µF)                        | 56             | ØD(mm) | 12,5 |
| Voltage                           | 450            | L(mm)  | 40,0 |
| Impedance (Ω)                     | -.-            | F(mm)  | 5,0  |
| Ripple Current (mA)               | 520            | Ød(mm) | 0,6  |
| ESR (Ω) max.at 20°C 10KHz         | -.-            | α(mm)  | 2    |
| Lifetime (hrs)                    | 5000           | -.-    | -.-  |
| Operating- Temperature Range (°C) | -40°C ~ +105°C | -.-    | -.-  |



|    |     |     |      |
|----|-----|-----|------|
| ØD | 8   | 10  | 12,5 |
| F  | 3,5 | 5,0 | 5,0  |
| Ød | 0,5 | 0,6 | 0,8  |
| α  | 1,5 | 2,0 |      |

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

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### Ordering Informations:

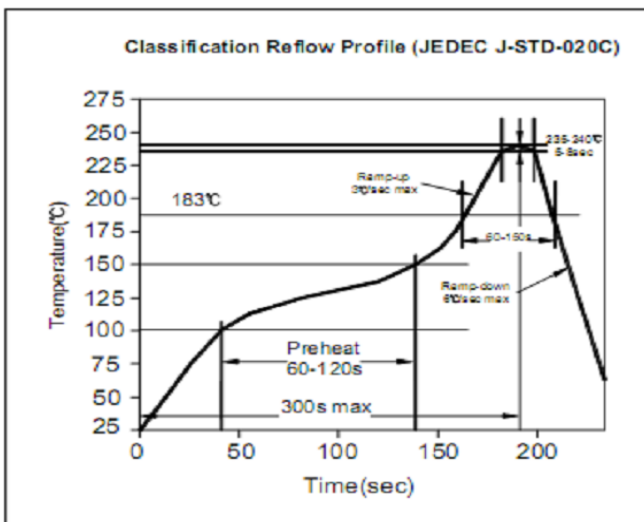
| Serie-No. / Voltage / Range / Size | Capacity Tolerance | ROHS | Packing |
|------------------------------------|--------------------|------|---------|
|------------------------------------|--------------------|------|---------|

|                   |   |   |    |
|-------------------|---|---|----|
| I14115-4515601340 | M | R | BU |
|-------------------|---|---|----|

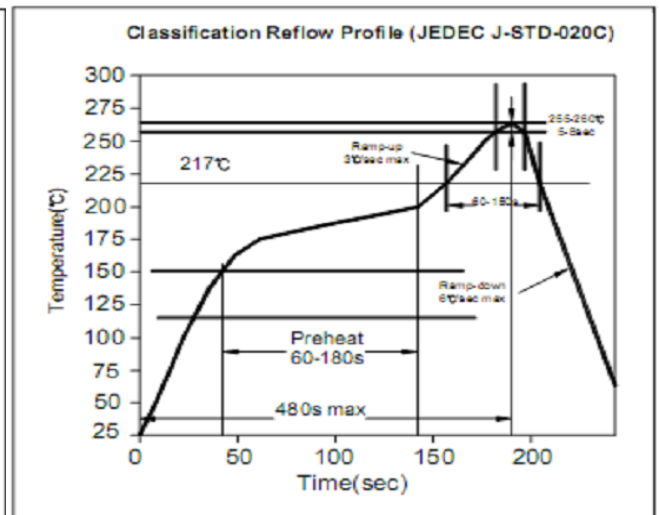
| Serie | Voltage (V) | Range $\mu$ H) | D * L (mm) | Tolerance Order Code | R= ROHS     | BU= Bulk-Ware Long Lead |
|-------|-------------|----------------|------------|----------------------|-------------|-------------------------|
|       |             |                |            |                      | N= NON ROHS | T/B= Tape/Box           |
|       |             |                |            |                      |             | L3= Lead-Length 3~3,5mm |

### Soldering Information

#### Lead Solder Performance



#### Lead free Solder Performance



|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
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