



**THT, Radial E-Cap., Non-polarized, and low profile with 5mm Height, Uniquely designed for use in lightweight and portable equipment, Long Lead, ROHS Conform, Packing Bulk-Ware into Polybag**

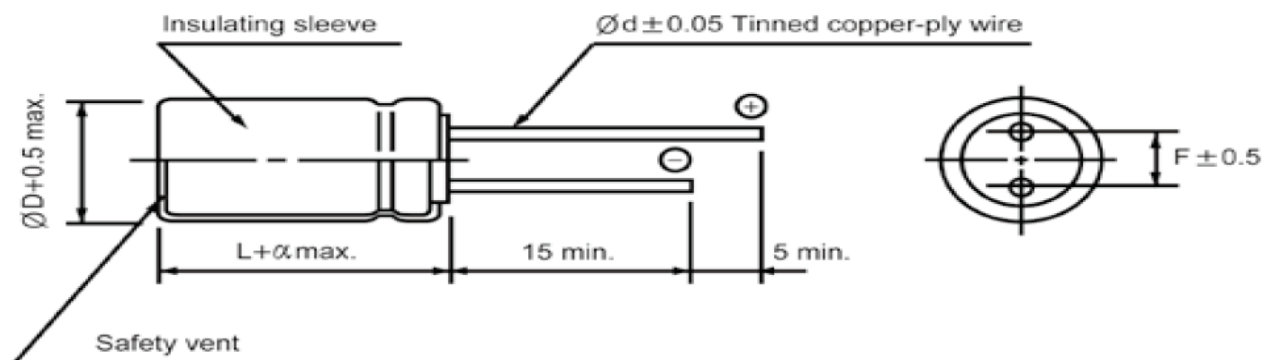
| Items                                                                   |                 |                                                                                                   | Performance Characteristics |      |      |      |      |      |                                   |  |  |  |  |
|-------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------|-----------------------------|------|------|------|------|------|-----------------------------------|--|--|--|--|
| Operating temperature range                                             |                 | -40°C +85°C                                                                                       |                             |      |      |      |      |      |                                   |  |  |  |  |
| Leakage current max.                                                    |                 |                                                                                                   |                             |      |      |      |      |      |                                   |  |  |  |  |
|                                                                         |                 | I = 0,05CV or 10μA whichever is greater (after 2 minutes)                                         |                             |      |      |      |      |      |                                   |  |  |  |  |
|                                                                         |                 |                                                                                                   |                             |      |      |      |      |      |                                   |  |  |  |  |
| Capacitance tolerance                                                   |                 | ±20% at 120Hz, 20°C                                                                               |                             |      |      |      |      |      |                                   |  |  |  |  |
| Dissipation factor max.<br>(at 120Hz, 20°C)                             |                 |                                                                                                   |                             |      |      |      |      |      |                                   |  |  |  |  |
|                                                                         |                 | WV                                                                                                | 6,3                         | 10   | 16   | 25   | 35   | 50   |                                   |  |  |  |  |
|                                                                         |                 | TanQ                                                                                              | 0,24                        | 0,20 | 0,17 | 0,17 | 0,15 | 0,15 |                                   |  |  |  |  |
| Low temperature characteristics (Impedance ratio at 120Jz)              | WV              | 6,3                                                                                               | 10                          | 16   | 25   | 35   | 50   |      |                                   |  |  |  |  |
|                                                                         | Z-25°C / Z+20°C | 4                                                                                                 | 3                           | 2    | 2    | 2    | 2    |      |                                   |  |  |  |  |
|                                                                         | Z-40°C / Z+20°C | 8                                                                                                 | 6                           | 4    | 4    | 3    | 3    |      |                                   |  |  |  |  |
| Load life ( after application of the rated voltage for 1000hrs at 85°C) |                 | Leakage Current                                                                                   |                             |      |      |      |      |      | Less than specified Value         |  |  |  |  |
|                                                                         |                 | Capacitance Change                                                                                |                             |      |      |      |      |      | Within ±20% of initial value      |  |  |  |  |
|                                                                         |                 | TanQ                                                                                              |                             |      |      |      |      |      | Less than 200% of specified value |  |  |  |  |
|                                                                         |                 | Test method                                                                                       |                             |      |      |      |      |      | Polarity reverse each 250 hours   |  |  |  |  |
| Shelf life (at 85°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≤ |  |  |
|  | Coefficient | 0,75 | 1,00  | 1,55 | 2,00   |  |  |
|  |             |      |       |      |        |  |  |
|  |             |      |       |      |        |  |  |
|  |             |      |       |      |        |  |  |

**Technical Details**

|                                   |               |        |      |
|-----------------------------------|---------------|--------|------|
| Range (µF)                        | 3,3           | ØD(mm) | 5,0  |
| Voltage                           | 25            | L(mm)  | 5,0  |
| Impedance (Ω)                     | -.-           | F(mm)  | 2,0  |
| Ripple Current (mA)               | 20            | Ød(mm) | 0,45 |
| ESR (Ω) max.at 20°C 10KHz         | -.-           | α(mm)  | 1    |
| Lifetime (hrs)                    | 1000          | -.-    | -.-  |
| Operating- Temperature Range (°C) | -40°C ~ +85°C | -.-    | -.-  |



|    |      |      |      |
|----|------|------|------|
| ØD | 4    | 5    | 6,3  |
| F  | 1,50 | 2,00 | 2,50 |
| Ød | 0,45 | 0,45 | 0,45 |
| α  | 1,0  |      |      |

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

|                   |   |   |    |
|-------------------|---|---|----|
| I14107-2503R30505 | M | R | BU |
|-------------------|---|---|----|

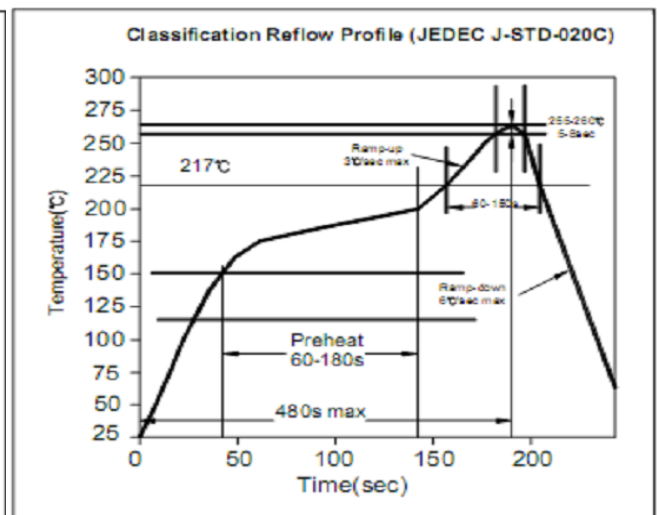
| Serie | Voltage (V) | Range $\mu$ H) | D * L (mm) | Tolerance Order Code | R= ROHS     | BU= Bulk-Ware Long Lead |
|-------|-------------|----------------|------------|----------------------|-------------|-------------------------|
|       |             |                |            |                      | 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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