



**THT, Radial E-Cap., High Temperature for 125°C use, Load life 5000 hours load life at 125°C, for electronic control unit and other high temperature applications. Long Lead, ROHS Conform, Packing Bulk-Ware into Polybag**

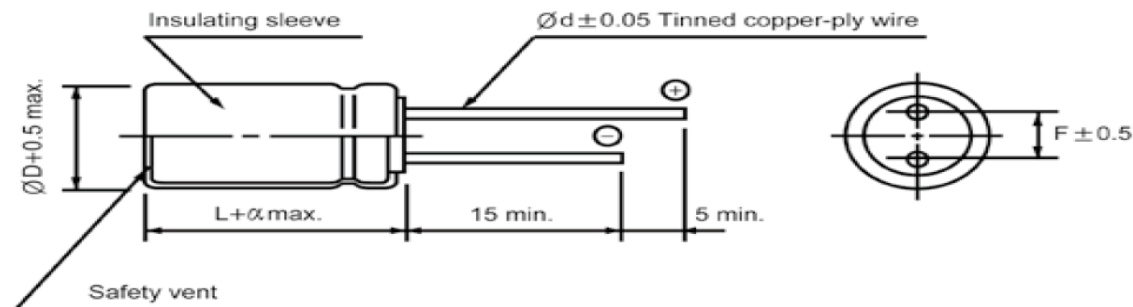
| Items                                                                    |                 |  | Performance Characteristics                                                                       |     |      |      |                                   |      |                           |      |      |      |  |  |  |
|--------------------------------------------------------------------------|-----------------|--|---------------------------------------------------------------------------------------------------|-----|------|------|-----------------------------------|------|---------------------------|------|------|------|--|--|--|
| Operating temperature range                                              |                 |  | -40°C +125°C                                                                                      |     |      |      |                                   |      |                           |      |      |      |  |  |  |
| Leakage current max.                                                     |                 |  |                                                                                                   |     |      |      |                                   |      |                           |      |      |      |  |  |  |
|                                                                          |                 |  | I = 0,05CV + 3µA whichever is greater (after 2 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                                                                                                |     | 6,3  | 10   | 16                                | 25   | 35                        | 50   | 63   | 100  |  |  |  |
|                                                                          |                 |  | TanQ                                                                                              |     | 0,22 | 0,20 | 0,16                              | 0,14 | 0,12                      | 0,10 | 0,10 | 0,08 |  |  |  |
| Low temperature characteristics (Impedance ratio at 120Jz)               | WV              |  |                                                                                                   | 6,3 | 10   | 16   | 25                                | 35   | 50                        | 63   | 100  |      |  |  |  |
|                                                                          | Z-25°C / Z+20°C |  |                                                                                                   | 3   | 3    | 3    | 2                                 | 2    | 2                         | 2    | 2    |      |  |  |  |
|                                                                          | Z-40°C / Z+20°C |  |                                                                                                   | 6   | 6    | 4    | 3                                 | 3    | 3                         | 3    | 3    |      |  |  |  |
| Load life ( after application of the rated voltage for 5000hrs at 125°C) |                 |  | Leckage Current                                                                                   |     |      |      |                                   |      | Less than specified Value |      |      |      |  |  |  |
|                                                                          |                 |  | Capacitance Change                                                                                |     |      |      | Within ±30% off initial Value     |      |                           |      |      |      |  |  |  |
|                                                                          |                 |  | TanQ                                                                                              |     |      |      | Less than 150% of specified value |      |                           |      |      |      |  |  |  |
|                                                                          |                 |  |                                                                                                   |     |      |      |                                   |      |                           |      |      |      |  |  |  |
|                                                                          |                 |  | ø5, 8ø6,3: 2000hours , ø8:3000hours, >ø10 : 5000hours                                             |     |      |      |                                   |      |                           |      |      |      |  |  |  |
| Shelf life (at 125°C)                                                    |                 |  | After 1000 hours no load test, leakage current, capacitance and tanQ are same as load life value. |     |      |      |                                   |      |                           |      |      |      |  |  |  |

#### FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

| µF          | Frequency | 120Hz | 1kHz | 10kHz | 50kHz | 100kHz≤ |
|-------------|-----------|-------|------|-------|-------|---------|
| ~ 33        |           | 0,20  | 0,50 | 0,80  | 0,90  | 1,00    |
| 47 ~ 100    |           | 0,25  | 0,60 | 0,90  | 0,95  | 1,00    |
| 150 ~ 220   |           | 0,35  | 0,70 | 0,92  | 0,96  | 1,00    |
| 33 ~ 680    |           | 0,45  | 0,75 | 0,95  | 0,97  | 1,00    |
| 1000 ~ 1500 |           | 0,50  | 0,80 | 0,96  | 0,98  | 1,00    |
| 2200 ~      |           | 0,55  | 0,65 | 0,98  | 0,99  | 1,00    |

#### Technical Details

|                                   |                |        |      |
|-----------------------------------|----------------|--------|------|
| Range (µF)                        | 1500           | ØD(mm) | 13,0 |
| Voltage                           | 16             | L(mm)  | 25,0 |
| Impedance (Ω)                     | 0,05           | F(mm)  | 5,0  |
| Ripple Current (mA)               | 1900           | Ød(mm) | 0,6  |
| ESR (Ω) max.at 20°C 10KHz         | -.-            | α(mm)  | 2    |
| Lifetime (hrs)                    | 5000           | -.-    | -.-  |
| Operating- Temperature Range (°C) | -40°C ~ +125°C | -.-    | -.-  |



|    |     |     |     |     |      |     |
|----|-----|-----|-----|-----|------|-----|
| ØD | 5   | 6,3 | 8   | 10  | 12,5 | 16  |
| F  | 2   | 2,5 | 3,5 | 5   | 5    | 7,5 |
| Ød | 0,5 |     |     | 0,6 |      | 0,8 |
| α  | 1,5 |     |     | 2,0 |      |     |

|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW:  | Lexua | CHKD | Wilson | MATL:  | ChuChu | DATE  | 23.12.2024 |
| APPD: | Jimmy |      |        | FINISH | Josy   | Sheet | 1 from 2   |

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### Ordering Informations:

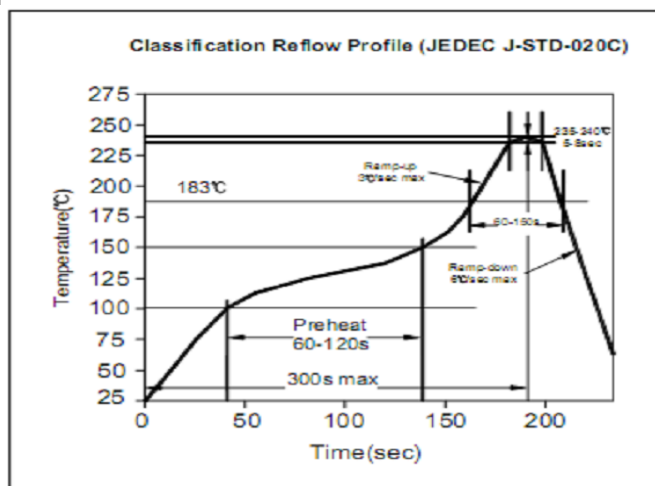
| Serie-No. / Voltage / Range / Size | Capacity Tolerance | ROHS | Packing |
|------------------------------------|--------------------|------|---------|
|------------------------------------|--------------------|------|---------|

|                   |   |   |    |
|-------------------|---|---|----|
| I14070-1601521325 | M | R | BU |
|-------------------|---|---|----|

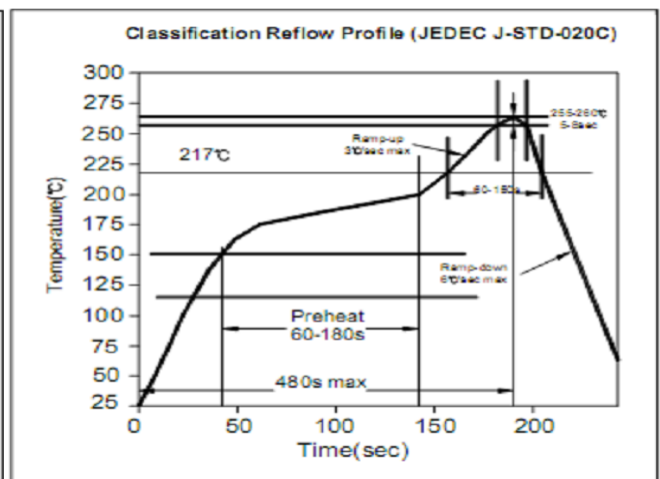
| Serie | Voltage (V) | Range $\mu$ H) | D * L (mm) | Tolerance Order Code | R= ROHS<br>N= NON ROHS | BU= Bulk-Ware Long Lead<br>T/B= Tape/Box<br>L3= Lead-Length 3~3,5mm |
|-------|-------------|----------------|------------|----------------------|------------------------|---------------------------------------------------------------------|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

### Soldering Information

#### Lead Solder Performance



#### Lead free Solder Performance



|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW:  | Lexua | CHKD | Wilson | MATL:  | ChuChu | DATE  | 23.12.2024 |
| APPD: | Jimmy |      |        | FINISH | Josy   | Sheet | 2 from 2   |