



**THT, Radial E-Cap., Low Impedance, High Ripple Current for LED Lighting High Reliability, withstanding 10000 hours load life at 105°C, Long Lead, ROHS Conform, Packing Bulk-Ware into Polybag**

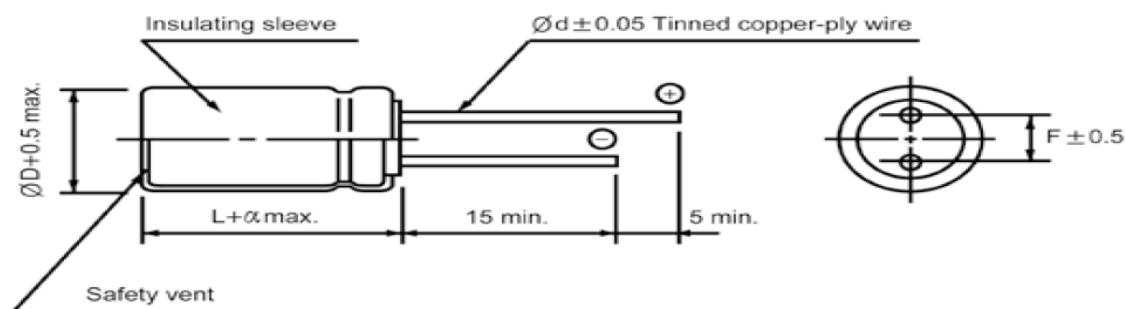
| Items                                                                      |                                                                                                   | Performance Characteristics |                                   |      |      |      |       |      |                               |        |      |      |  |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------|------|------|------|-------|------|-------------------------------|--------|------|------|--|
| Operating temperature range                                                | -40°C +105°C                                                                                      |                             |                                   |      |      |      |       |      |                               |        |      |      |  |
| Leakage current max.                                                       | I = 0,01CV + 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                            | 80     | 100  | 120  |  |
|                                                                            | TanQ                                                                                              |                             | 0,22                              | 0,19 | 0,16 | 0,14 | 0,12  | 0,10 | 0,09                          | 0,08   | 0,08 | 0,08 |  |
| Low temperature characteristics<br>(Impedance ratio at 120Jz)              | Z-25°C / Z+20°C                                                                                   |                             |                                   |      |      |      |       | 2    |                               |        |      |      |  |
|                                                                            | Z-40°C / Z+20°C                                                                                   |                             |                                   |      |      |      |       | 3    |                               |        |      |      |  |
| Load life ( after application of the<br>rated voltage for 2000hrs at 85°C) | WV                                                                                                |                             | 6,3~10                            |      |      |      |       |      | 63~120                        |        |      |      |  |
|                                                                            | Leakage Current                                                                                   |                             | Less than specified Value         |      |      |      |       |      |                               |        |      |      |  |
|                                                                            | Capacitance Change                                                                                |                             | Within ±30% off initial Value     |      |      |      |       |      | Within ±25% off initial Value |        |      |      |  |
|                                                                            | TanQ                                                                                              |                             | Less than 200% of specified value |      |      |      |       |      |                               |        |      |      |  |
|                                                                            | ØD                                                                                                |                             | WV                                | 6,3  |      |      | 10~50 |      |                               | 63~120 |      |      |  |
|                                                                            | Ø5 ~ Ø6,3                                                                                         |                             |                                   | 6000 |      |      | 8000  |      |                               | 6000   |      |      |  |
|                                                                            | Ø8x11,5                                                                                           |                             |                                   | 8000 |      |      | 9000  |      |                               | 8000   |      |      |  |
|                                                                            | Ø8x16 ~ 20                                                                                        |                             |                                   | 9000 |      |      | 10000 |      |                               | 9000   |      |      |  |
|                                                                            | Ø10x12,5                                                                                          |                             | 9000                              |      |      |      |       |      |                               |        |      |      |  |
|                                                                            | Ø10x16~25                                                                                         |                             | 10000                             |      |      |      |       |      |                               |        |      |      |  |
| Ø12,5 ~                                                                    |                                                                                                   | 10000                       |                                   |      |      |      |       |      |                               |        |      |      |  |
| 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 RIPPE CURRENT**

| μF / Frequency | 120Hz | 1kHz | 10kHz | 50kHz | 100kHz≤ |
|----------------|-------|------|-------|-------|---------|
| ~33            | 0,42  | 0,70 | 0,90  | 0,95  | 1,00    |
| 47 ~ 270       | 0,50  | 0,73 | 0,92  | 0,10  | 1,00    |
| 330 ~ 680      | 0,55  | 0,77 | 0,94  | 0,97  | 1,00    |
| 820 ~ 1800     | 0,60  | 0,80 | 0,96  | 0,98  | 1,00    |
| 2200 ~         | 0,70  | 0,85 | 0,98  | 0,99  | 1,00    |

**Technical Details**

|                                   |                |        |      |
|-----------------------------------|----------------|--------|------|
| Range (μF)                        | 1800           | ØD(mm) | 10,0 |
| Voltage                           | 10             | L(mm)  | 20,0 |
| Impedance (Ω)                     | 0,027          | F(mm)  | 5,0  |
| Ripple Current (mA)               | 2500           | Ød(mm) | 0,6  |
| ESR (Ω) max.at 20°C 10KHz         | -.-            | α(mm)  | 2    |
| Lifetime (hrs)                    | 10000          | -.-    | -.-  |
| Operating- Temperature Range (°C) | -40°C ~ +105°C | -.-    | -.-  |



|    |     |     |     |     |      |     |     |
|----|-----|-----|-----|-----|------|-----|-----|
| ØD | 5   | 6,3 | 8   | 10  | 12,5 | 16  | 18  |
| F  | 2,0 | 2,5 | 3,5 | 5,0 | 5,0  | 7,5 | 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 |
|------------------------------------|--------------------|------|---------|
|------------------------------------|--------------------|------|---------|

|                   |   |   |    |
|-------------------|---|---|----|
| 114063-1001821020 | 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



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