



**THT, Radial E-Cap., Miniature long life 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                                                     |  |  | -25°C +105°C                                                                                      |  |    |      |      |      |      |                                   |      |      |  |  |  |  |
| Leakage current max.                                                            |  |  | I = 0,01CV + 3μA whichever is greater (after 2 minutes)                                           |  |    |      |      |      |      |                                   |      |      |  |  |  |  |
|                                                                                 |  |  | I = 0,03CV + 4μA whichever is greater (after 1 minutes)                                           |  |    |      |      |      |      |                                   |      |      |  |  |  |  |
|                                                                                 |  |  |                                                                                                   |  |    |      |      |      |      |                                   |      |      |  |  |  |  |
| Capacitance tolerance                                                           |  |  | ±20% at 120Hz, 20°C                                                                               |  |    |      |      |      |      |                                   |      |      |  |  |  |  |
| Dissipation factor max.<br>(at 120Hz, 20°C)                                     |  |  |                                                                                                   |  |    |      |      |      |      |                                   |      |      |  |  |  |  |
|                                                                                 |  |  | WV                                                                                                |  |    | 10   | 16   | 25   | 35   | 50                                | 63   | 100  |  |  |  |  |
|                                                                                 |  |  | TanQ                                                                                              |  |    | 0,45 | 0,35 | 0,30 | 0,22 | 0,19                              | 0,17 | 0,15 |  |  |  |  |
| Low temperature characteristics<br>(Impedance ratio at 120Jz)                   |  |  | WV                                                                                                |  | 10 | 16   | 25   | 35   | 50   | 63                                | 100  |      |  |  |  |  |
|                                                                                 |  |  | Z-25°C / Z+20°C                                                                                   |  |    | 8    | 6    | 4    | 4    | 3                                 | 4    | 4    |  |  |  |  |
|                                                                                 |  |  |                                                                                                   |  |    |      |      |      |      |                                   |      |      |  |  |  |  |
| Load life ( after application of the<br>rated voltage for 10000hrs at<br>105°C) |  |  | Leakage Current                                                                                   |  |    |      |      |      |      | Less than specified Value         |      |      |  |  |  |  |
|                                                                                 |  |  | Capacitance Change                                                                                |  |    |      |      |      |      | Within ±25% off initial Value     |      |      |  |  |  |  |
|                                                                                 |  |  | TanQ                                                                                              |  |    |      |      |      |      | Less than 200% of specified value |      |      |  |  |  |  |
|                                                                                 |  |  |                                                                                                   |  |    |      |      |      |      |                                   |      |      |  |  |  |  |
| 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**

| µF  | Frequency | 120Hz | 1kHz | 10kHz | 50kHz | 100kHz≤ |  |
|-----|-----------|-------|------|-------|-------|---------|--|
| ~33 |           | 0,42  | 0,70 | 0,90  | 0,95  | 1,00    |  |
| 47~ |           | 0,50  | 0,73 | 0,92  | 0,96  | 1,00    |  |
|     |           |       |      |       |       |         |  |
|     |           |       |      |       |       |         |  |
|     |           |       |      |       |       |         |  |
|     |           |       |      |       |       |         |  |

**Technical Details**

|                                   |                |  |        |      |
|-----------------------------------|----------------|--|--------|------|
| Range (µF)                        | 47             |  | ØD(mm) | 5,0  |
| Voltage                           | 16             |  | L(mm)  | 11,0 |
| Impedance (Ω)                     | -.-            |  | F(mm)  | 2,0  |
| Ripple Current (mA)               | 175            |  | Ød(mm) | 0,5  |
| ESR (Ω) max.at 20°C 10KHz         | -.-            |  | α(mm)  | 1,5  |
| Lifetime (hrs)                    | 10000          |  | -.-    | -.-  |
| Operating- Temperature Range (°C) | -25°C ~ +105°C |  | -.-    | -.-  |



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

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

|                   |   |   |    |
|-------------------|---|---|----|
| I14062-1604700511 | 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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