



**THT, Radial E-Cap., For PSU, High High Ripple withstanding to 20000 hours load life at 105°C, for power supply and adapter, Long Lead, ROHS Conform, Packing Bulk-Ware into Polybag**

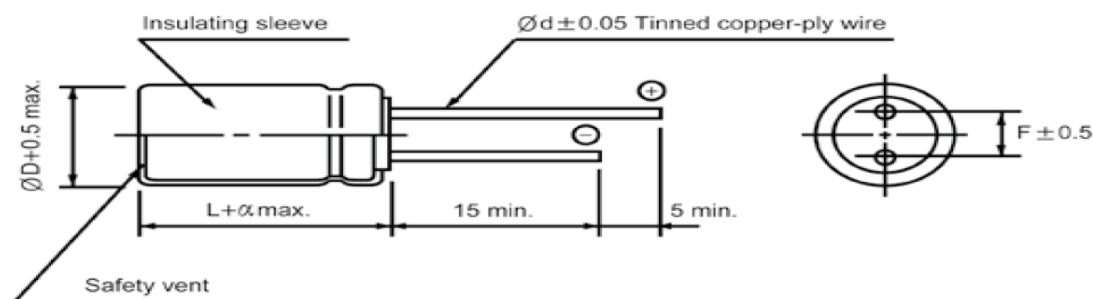
| Items                                                                           |                                                                                                   |  | Performance Characteristics |      |      |      |                                   |      |      |      |      |  |  |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--|-----------------------------|------|------|------|-----------------------------------|------|------|------|------|--|--|
| Operating temperature range                                                     | -40°C +105°C (160~450V), -25°C ~ 105°C (500)                                                      |  |                             |      |      |      |                                   |      |      |      |      |  |  |
| Leakage current max.                                                            | I = 0,04CV + 100µA (after 1 minutes)                                                              |  |                             |      |      |      |                                   |      |      |      |      |  |  |
|                                                                                 | I = 0,02CV + 25µA (after 5 minutes)                                                               |  |                             |      |      |      |                                   |      |      |      |      |  |  |
|                                                                                 |                                                                                                   |  |                             |      |      |      |                                   |      |      |      |      |  |  |
| Capacitance tolerance                                                           | ±20% at 120Hz, 20°C                                                                               |  |                             |      |      |      |                                   |      |      |      |      |  |  |
| Dissipation factor max.<br>(at 120Hz, 20°C)                                     | WV                                                                                                |  |                             | 160  | 200  | 250  | 350                               | 400  | 420  | 450  | 500  |  |  |
|                                                                                 | TanQ                                                                                              |  |                             | 0,20 | 0,20 | 0,20 | 0,24                              | 0,24 | 0,24 | 0,24 | 0,24 |  |  |
| Low temperature characteristics<br>(Impedance ratio at 120Jz)                   | WV                                                                                                |  |                             | 160  | 200  | 250  | 350                               | 400  | 420  | 450  | 500  |  |  |
|                                                                                 | Z-25°C / Z+20°C                                                                                   |  |                             | 3    | 3    | 3    | 3                                 | 6    | 6    | 6    | 6    |  |  |
|                                                                                 | Z-40°C / Z+20°C                                                                                   |  |                             | 4    | 4    | 4    | 6                                 | 6    | 6    | 6    | -    |  |  |
| Load life ( after application of the<br>rated voltage for 20000hrs at<br>105°C) | Leakage Current                                                                                   |  |                             |      |      |      | Less than specified Value         |      |      |      |      |  |  |
|                                                                                 | Capacitance Change                                                                                |  |                             |      |      |      | Within ±25% off initial Value     |      |      |      |      |  |  |
|                                                                                 | TanQ                                                                                              |  |                             |      |      |      | Less than 200% of specified value |      |      |      |      |  |  |
|                                                                                 |                                                                                                   |  |                             |      |      |      |                                   |      |      |      |      |  |  |
|                                                                                 | Ø10; 15000hours, > Ø12,50 : 20000hours                                                            |  |                             |      |      |      |                                   |      |      |      |      |  |  |
| 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≤ |
|---------------|-------|--|------|-------|-------|---------|
| 3,3~82        | 1,00  |  | 1,75 | 2,25  | 2,35  | 2,50    |
| 100~470       | 1,00  |  | 1,67 | 2,05  | 2,15  | 2,25    |
|               |       |  |      |       |       |         |
|               |       |  |      |       |       |         |
|               |       |  |      |       |       |         |

**Technical Details**

|                                   |                |        |      |
|-----------------------------------|----------------|--------|------|
| Range (µF)                        | 82             | ØD(mm) | 18,0 |
| Voltage                           | 500            | L(mm)  | 45,0 |
| Impedance (Ω)                     | -.-            | F(mm)  | 10,0 |
| Ripple Current (mA)               | 685            | Ød(mm) | 0,8  |
| ESR (Ω) max.at 20°C 10KHz         | -.-            | α(mm)  | 3    |
| Lifetime (hrs)                    | 20000          | -.-    | -.-  |
| Operating- Temperature Range (°C) | -25°C ~ +105°C | -.-    | -.-  |



|    |  |  |  |     |      |     |     |      |
|----|--|--|--|-----|------|-----|-----|------|
| ØD |  |  |  | 10  | 12,5 | 16  | 18  | 22   |
| F  |  |  |  | 5,0 | 5,0  | 7,5 | 7,5 | 10,0 |
| Ød |  |  |  | 0,6 |      | 0,8 |     |      |
| α  |  |  |  | 2,0 |      |     |     | 3,0  |

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

|                   |   |   |    |
|-------------------|---|---|----|
| I14068-5018201845 | M | R | BU |
|-------------------|---|---|----|

| Serie | Voltage (V) | Range µH) | 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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