



**THT, Radial E-Cap., For PSU High Ripple Current, Long Life, High Reliability, withstanding 10000 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~ +105°C (500V)                                                        |      |      |      |                                   |      |      |      |      |  |  |
| Leakage current max.                                                            | 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                                |  |                                                                                                   | 0,15 | 0,15 | 0,15 | 0,20                              | 0,20 | 0,20 | 0,20 | 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    | 4                                 | 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 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 RIPPE CURRENT

|             | Frequency | 60Hz | 120Hz | 1kHz | 10kHz | 50kHz | 100kHz≤ |
|-------------|-----------|------|-------|------|-------|-------|---------|
| Coefficient |           | 0,35 | 0,50  | 0,80 | 0,90  | 0,95  | 1,00    |
|             |           |      |       |      |       |       |         |
|             |           |      |       |      |       |       |         |
|             |           |      |       |      |       |       |         |
|             |           |      |       |      |       |       |         |
|             |           |      |       |      |       |       |         |

#### Technical Details

|                                   |                |        |      |
|-----------------------------------|----------------|--------|------|
| Range (µF)                        | 68             | ØD(mm) | 18,0 |
| Voltage                           | 500            | L(mm)  | 40,0 |
| Impedance (Ω)                     | -.-            | F(mm)  | 10,0 |
| Ripple Current (mA)               | 1300           | Ød(mm) | 0,8  |
| ESR (Ω) max.at 20°C 10KHz         | -.-            | α(mm)  | 3    |
| Lifetime (hrs)                    | 10000          | -.-    | -.-  |
| Operating- Temperature Range (°C) | -25°C ~ +105°C | -.-    | -.-  |



|    |     |  |     |     |      |     |     |      |
|----|-----|--|-----|-----|------|-----|-----|------|
| ØD |     |  | 8   | 10  | 12,5 | 16  | 18  | 22   |
| F  |     |  | 3,5 | 5,0 | 5,0  | 7,5 | 7,5 | 10,0 |
| Ød | 0,5 |  |     | 0,6 |      | 0,8 |     |      |
| α  | 1,5 |  |     | 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 |
|------------------------------------|--------------------|------|---------|
|------------------------------------|--------------------|------|---------|

|                   |   |   |    |
|-------------------|---|---|----|
| 114065-5016801840 | 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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