



**THT, Radial E-Cap., Non-polarized, Wide operating temperature Range, Designed for use in circuits with reversing polarity, Long Lead, ROHS Conform, Packing Bulk-Ware into Polybag**

| Items                                                                    |                 |  | Performance Characteristics                                                                       |      |      |      |      |      |                                   |      |      |      |  |  |
|--------------------------------------------------------------------------|-----------------|--|---------------------------------------------------------------------------------------------------|------|------|------|------|------|-----------------------------------|------|------|------|--|--|
| Operating temperature range                                              |                 |  | -40°C +105°C                                                                                      |      |      |      |      |      |                                   |      |      |      |  |  |
| Leakage current max.                                                     |                 |  |                                                                                                   |      |      |      |      |      |                                   |      |      |      |  |  |
|                                                                          |                 |  | I = 0,03CV + 3µA whichever is greater (after 5 minutes)                                           |      |      |      |      |      |                                   |      |      |      |  |  |
|                                                                          |                 |  |                                                                                                   |      |      |      |      |      |                                   |      |      |      |  |  |
| Capacitance tolerance                                                    |                 |  | ±20% at 120Hz, 20°C                                                                               |      |      |      |      |      |                                   |      |      |      |  |  |
| Dissipation factor max.<br>(at 120Hz, 20°C)                              |                 |  |                                                                                                   |      |      |      |      |      |                                   |      |      |      |  |  |
|                                                                          |                 |  | WV                                                                                                | 6,3  | 10   | 16   | 25   | 35   | 50                                | 63   | 80   | 100  |  |  |
|                                                                          |                 |  | TanQ                                                                                              | 0,24 | 0,20 | 0,16 | 0,16 | 0,14 | 0,12                              | 0,12 | 0,12 | 0,12 |  |  |
| Low temperature characteristics (Impedance ratio at 120Jz)               |                 |  | 6,3                                                                                               | 10   | 16   | 25   | 35   | 50   | 63                                | 63   | 100  |      |  |  |
|                                                                          | Z-25°C / Z+20°C |  | 4                                                                                                 | 3    | 2    | 2    | 2    | 2    | 2                                 | 2    | 2    |      |  |  |
|                                                                          | Z-40°C / Z+20°C |  | 8                                                                                                 | 6    | 4    | 3    | 3    | 3    | 3                                 | 3    | 3    |      |  |  |
| Load life ( after application of the rated voltage for 1000hrs at 105°C) |                 |  | Leakage Current                                                                                   |      |      |      |      |      | Less than specified Value         |      |      |      |  |  |
|                                                                          |                 |  | Capacitance Change                                                                                |      |      |      |      |      | Within ±20% off initial Value     |      |      |      |  |  |
|                                                                          |                 |  | TanQ                                                                                              |      |      |      |      |      | Less than 200% of specified value |      |      |      |  |  |
|                                                                          |                 |  | Test method                                                                                       |      |      |      |      |      | Polarity reverse each 250 hours   |      |      |      |  |  |
|                                                                          |                 |  |                                                                                                   |      |      |      |      |      |                                   |      |      |      |  |  |
| 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 | 50HZ | 120Hz | 1kHz | 10kHz≤ |  |  |
|----------|-----------|------|-------|------|--------|--|--|
| ~ 47     |           | 0,75 | 1,00  | 1,55 | 2,00   |  |  |
| 68 ~ 680 |           | 0,80 | 1,00  | 1,34 | 1,50   |  |  |
| 1000 ~   |           | 0,85 | 1,00  | 1,13 | 1,15   |  |  |
|          |           |      |       |      |        |  |  |
|          |           |      |       |      |        |  |  |

**Technical Details**

|                                   |                 |        |      |
|-----------------------------------|-----------------|--------|------|
| Range (µF)                        | 0,1             | ØD(mm) | 5,0  |
| Voltage                           | 50              | L(mm)  | 11,0 |
| Impedance (Ω)                     | -. -            | F(mm)  | 2,0  |
| Ripple Current (mA)               | 3,6             | Ød(mm) | 0,5  |
| ESR (Ω) max.at 20°C 10KHz         | -. -            | α(mm)  | 1,5  |
| Lifetime (hrs)                    | 1000            | -. -   | -. - |
| Operating- Temperature Range (°C) | -.40°C ~ +105°C | -. -   | -. - |



|    |     |     |     |     |      |     |     |      |      |
|----|-----|-----|-----|-----|------|-----|-----|------|------|
| ØD | 5   | 6,3 | 8   | 10  | 12,5 | 16  | 18  | 22   | 25   |
| F  | 2,0 | 2,5 | 3,5 | 5,0 | 5,0  | 7,5 | 7,5 | 10,0 | 12,5 |
| Ød | 0,5 |     |     | 0,6 |      | 0,8 |     |      |      |
| α  | 1,5 |     |     | 2   |      |     |     |      |      |

|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW:  | Lexua | CHKD | Wilson | MATL:  | ChuChu | DATE  | 28.01.2025 |
| APPD: | Jimmy |      |        | FINISH | Josy   | Sheet | 1 from 2   |



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### Ordering Informations:

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

|                   |   |   |    |
|-------------------|---|---|----|
| I14134-500R100511 | M | R | BU |
|-------------------|---|---|----|

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

### Soldering Information

#### Lead Solder Performance



#### Lead free Solder Performance



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