



**THT, Radial E-Cap., Standard Low Leakage current serie, Suited for high gain audio coupling applications, Stable leakage current characteristis for a long period of use, Long Lead, ROHS Conform, Packing Bulk-Ware into Polybag**

| Items                                                                      |                 |                                                                                                   | Performance Characteristics |      |      |      |                                   |      |      |      |  |        |  |
|----------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------|-----------------------------|------|------|------|-----------------------------------|------|------|------|--|--------|--|
| Operating temperature range                                                |                 | -40°C +85°C                                                                                       |                             |      |      |      |                                   |      |      |      |  |        |  |
| Leakage current max.                                                       |                 |                                                                                                   |                             |      |      |      |                                   |      |      |      |  |        |  |
|                                                                            |                 | I = 0,02CV + 0,4µA 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                                                                                                |                             | 10   | 16   | 25   | 35                                | 50   | 63   | 100  |  |        |  |
|                                                                            |                 | TanQ                                                                                              |                             | 0,17 | 0,15 | 0,12 | 0,12                              | 0,10 | 0,09 | 0,09 |  |        |  |
| Low temperature<br>characteristics (Impedance<br>ratio at 120Jz)           |                 |                                                                                                   | 10                          | 16   | 25   | 35   | 50                                | 63   | 100  |      |  |        |  |
|                                                                            | Z-25°C / Z+20°C |                                                                                                   | 2                           | 2    | 2    | 1,75 | 1,5                               | 1,5  | 1,5  |      |  |        |  |
|                                                                            | Z-40°C / Z+20°C |                                                                                                   | 4                           | 4    | 4    | 3    | 2                                 | 2    | 2    |      |  |        |  |
| Load life ( after application of the<br>rated voltage for 2000hrs at 85°C) |                 | Leckage Current                                                                                   |                             |      |      |      | Less than specified Value         |      |      |      |  |        |  |
|                                                                            |                 | Capacitance Change                                                                                |                             |      |      |      | WV≤ 16                            |      |      |      |  | WV≥ 16 |  |
|                                                                            |                 |                                                                                                   |                             |      |      |      | ±20%                              |      |      |      |  | ±20%   |  |
|                                                                            |                 |                                                                                                   |                             |      |      |      | ±20%                              |      |      |      |  | ±15%   |  |
|                                                                            |                 | TanQ                                                                                              |                             |      |      |      | Less than 150% of specified value |      |      |      |  |        |  |
| 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 | 50HZ | 120Hz | 1kHz | 10kHz |  |  |
|--|---------------|------|-------|------|-------|--|--|
|  | ~47           | 0,75 | 1,00  | 1,55 | 2,00  |  |  |
|  | 68 ~ 680      | 0,80 | 1,00  | 1,35 | 1,50  |  |  |
|  | 1000~         | 0,85 | 1,00  | 1,15 | 1,15  |  |  |
|  |               |      |       |      |       |  |  |
|  |               |      |       |      |       |  |  |

#### Technical Details

|                                   |               |        |      |
|-----------------------------------|---------------|--------|------|
| Range (µF)                        | 220           | ØD(mm) | 16,0 |
| Voltage                           | 100           | L(mm)  | 31,5 |
| Impedance (Ω)                     | -.-           | F(mm)  | 7,5  |
| Ripple Current (mA)               | 699           | Ød(mm) | 0,8  |
| ESR (Ω) max.at 20°C 10KHz         | -.-           | α(mm)  | 2    |
| Lifetime (hrs)                    | 2000          | -.-    | -.-  |
| Operating- Temperature Range (°C) | -40°C ~ +85°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  | 04.01.2025 |
| APPD: | Jimmy |      |        | FINISH | Josy   | Sheet | 1 from 2   |

Copyright by S.Tiede



THT, Radial E-Cap., Standard Low Leakage current serie, Suited for high gain audio coupling applications, Stable leakage current characteristics for a long period of use, Long Lead, ROHS Conform, Packing Bulk-Ware into Polybag

### Ordering Informations:

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

|                   |   |   |    |
|-------------------|---|---|----|
| 114116-1012211632 | 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



|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW:  | Lexua | CHKD | Wilson | MATL:  | ChuChu | DATE  | 04.01.2025 |
| APPD: | Jimmy |      |        | FINISH | Josy   | Sheet | 2 from 2   |