



**THT, Radial E-Cap., Low Impedance with Height 5mm loadlife to 1000hrs at 105°C, Long Lead, ROHS Conform, Packing Bulk-Ware into Polybag**

| Items                                                                          |                 |  | Performance Characteristics                                                                       |      |      |      |      |      |  |                                   |  |  |  |  |
|--------------------------------------------------------------------------------|-----------------|--|---------------------------------------------------------------------------------------------------|------|------|------|------|------|--|-----------------------------------|--|--|--|--|
| Operating temperature range                                                    |                 |  | -55°C +105°C                                                                                      |      |      |      |      |      |  |                                   |  |  |  |  |
| Leakage current max.                                                           |                 |  |                                                                                                   |      |      |      |      |      |  |                                   |  |  |  |  |
|                                                                                |                 |  | I = 0,01CV or 3µA whichever is greater (after 2 minutes)                                          |      |      |      |      |      |  |                                   |  |  |  |  |
|                                                                                |                 |  |                                                                                                   |      |      |      |      |      |  |                                   |  |  |  |  |
| Capacitance tolerance                                                          |                 |  | ±20% at 120Hz, 20°C                                                                               |      |      |      |      |      |  |                                   |  |  |  |  |
| Dissipation factor max.<br>(at 120Hz, 20°C)                                    |                 |  |                                                                                                   |      |      |      |      |      |  |                                   |  |  |  |  |
|                                                                                |                 |  | WV                                                                                                | 6,3  | 10   | 16   | 25   | 35   |  |                                   |  |  |  |  |
|                                                                                |                 |  | TanQ                                                                                              | 0,22 | 0,20 | 0,18 | 0,14 | 0,12 |  |                                   |  |  |  |  |
| Low temperature<br>characteristics (Impedance<br>ratio at 120Jz)               | WV              |  | 6,3                                                                                               | 10   | 16   | 25   | 35   |      |  |                                   |  |  |  |  |
|                                                                                | Z-25°C / Z+20°C |  | 3                                                                                                 | 3    | 2    | 2    | 2    |      |  |                                   |  |  |  |  |
|                                                                                | Z-40°C / Z+20°C |  | 9                                                                                                 | 7    | 5    | 3    | 3    |      |  |                                   |  |  |  |  |
| Load life ( after application of<br>the rated voltage for 1000hrs at<br>105°C) |                 |  | Leakage Current                                                                                   |      |      |      |      |      |  | Less than specified Value         |  |  |  |  |
|                                                                                |                 |  | Capacitance Change                                                                                |      |      |      |      |      |  | Within ±20% of 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 | 100kHz≤ |
|----------|-----------|-------|------|-------|---------|
| ~33      |           | 0,35  | 0,55 | 0,75  | 1,00    |
| 47 ~ 100 |           | 0,40  | 0,60 | 0,80  | 1,00    |
|          |           |       |      |       |         |
|          |           |       |      |       |         |
|          |           |       |      |       |         |

**Technical Details**

|                                   |                |        |      |
|-----------------------------------|----------------|--------|------|
| Range (µF)                        | 1,5            | ØD(mm) | 5,0  |
| Voltage                           | 35             | L(mm)  | 5,0  |
| Impedance (Ω)                     | 2,4            | F(mm)  | 2,0  |
| Ripple Current (mA)               | 100            | Ød(mm) | 0,45 |
| ESR (Ω) max.at 20°C 10KHz         | -.-            | α(mm)  | 1    |
| Lifetime (hrs)                    | 1000           | -.-    | -.-  |
| Operating- Temperature Range (°C) | -40°C ~ +105°C | -.-    | -.-  |



|    |      |      |
|----|------|------|
| ØD | 5    | 6,3  |
| F  | 2,00 | 2,50 |
| Ød | 0,45 | 0,45 |
| α  | 1,0  |      |

|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW:  | Lexua | CHKD | Wilson | MATL:  | ChuChu | DATE  | 17.01.2025 |
| APPD: | Jimmy |      |        | FINISH | Josy   | Sheet | 1 from 2   |



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### Ordering Informations:

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

|                   |   |   |    |
|-------------------|---|---|----|
| I14108-3501R50505 | 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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