



**THT, Radial E-Cap., Ultra Miniature Type Height 5mm, Suitable to replace tantalum Capacitor at low cost. Long Lead, ROHS Conform, Packing Bulk-Ware into Polybag**

| Items                                                                   |                 | Performance Characteristics                                                                       |      |      |                                   |            |                               |            |            |            |  |  |
|-------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------|------|------|-----------------------------------|------------|-------------------------------|------------|------------|------------|--|--|
| Operating temperature range                                             |                 | -40°C +85°C                                                                                       |      |      |                                   |            |                               |            |            |            |  |  |
| Leakage current max.                                                    |                 |                                                                                                   |      |      |                                   |            |                               |            |            |            |  |  |
|                                                                         |                 | I = 0,01CV + 3µA whichever is greater (after 2 minutes)                                           |      |      |                                   |            |                               |            |            |            |  |  |
|                                                                         |                 |                                                                                                   |      |      |                                   |            |                               |            |            |            |  |  |
| Capacitance tolerance                                                   |                 | ±20% at 120Hz, 20°C                                                                               |      |      |                                   |            |                               |            |            |            |  |  |
| Dissipation factor max.<br>(at 120Hz, 20°C)                             |                 |                                                                                                   |      |      |                                   |            |                               |            |            |            |  |  |
|                                                                         |                 | WV                                                                                                | 4    | 6,3  | 10                                | 16         | 25                            | 35         | 50         | 63         |  |  |
|                                                                         |                 | TanQ                                                                                              | 0,35 | 0,24 | 0,20                              | 0,16(0,20) | 0,13(0,15)                    | 0,12(0,14) | 0,09(0,11) | 0,09(0,11) |  |  |
| Low temperature characteristics (Impedance ratio at 120Jz)              |                 | 4                                                                                                 | 6,3  | 10   | 16~63                             |            |                               |            |            |            |  |  |
|                                                                         | Z-25°C / Z+20°C | 6                                                                                                 | 4    | 3    | 2                                 |            |                               |            |            |            |  |  |
|                                                                         | Z-40°C / Z+20°C | 12                                                                                                | 8    | 6    | 4                                 |            |                               |            |            |            |  |  |
| Load life ( after application of the rated voltage for 2000hrs at 85°C) |                 | Leckage Current                                                                                   |      |      |                                   |            | Less than specified Value     |            |            |            |  |  |
|                                                                         |                 | Capacitance Change                                                                                |      |      |                                   |            | Within ±20% off initial Value |            |            |            |  |  |
|                                                                         |                 |                                                                                                   |      |      |                                   |            |                               |            |            |            |  |  |
|                                                                         |                 | TanQ                                                                                              |      |      | Less than 200% 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 RIPPLE CURRENT**

|  | µF/Frequency | 50HZ | 120Hz | 1kHz | 10kHz |  | 100kHz≤ |
|--|--------------|------|-------|------|-------|--|---------|
|  | ~47          | 0,75 | 1,00  | 1,55 | 2,00  |  | 2,00    |
|  | 68~680       | 0,80 | 1,00  | 1,35 | 1,50  |  | 1,75    |
|  |              |      |       |      |       |  |         |
|  |              |      |       |      |       |  |         |

**Technical Details**

|                                   |               |        |      |
|-----------------------------------|---------------|--------|------|
| Range (µF)                        | 100           | ØD(mm) | 6,3  |
| Voltage                           | 6,3           | L(mm)  | 5,0  |
| Impedance (Ω)                     | -.-           | F(mm)  | 2,5  |
| Ripple Current (mA)               | 108           | Ød(mm) | 0,45 |
| ESR (Ω) max.at 20°C 10KHz         | -.-           | α(mm)  | 1    |
| Lifetime (hrs)                    | 2000          | -.-    | -.-  |
| Operating- Temperature Range (°C) | -40°C ~ +85°C | -.-    | -.-  |



|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW:  | Lexua | CHKD | Wilson | MATL:  | ChuChu | DATE  | 19.12.2024 |
| APPD: | Jimmy |      |        | FINISH | Josy   | Sheet | 1 from 2   |



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### Ordering Informations:

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

|                   |   |   |    |
|-------------------|---|---|----|
| I14001-6V31010605 | 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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