



**THT, Radial E-Cap., Non-polarized Designed for use in circuits with reversing polarity, Higher voltage rating available up to 250V, load life of 2000 hours at 85°C, Long Lead, ROHS Conform, Packing Bulk-Ware into Polybag**

| Items                                                                         |                 | Performance Characteristics                                                                       |      |      |      |      |      |      |                                   |      |         |      |         |
|-------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------|------|------|------|------|------|------|-----------------------------------|------|---------|------|---------|
| Operating temperature range                                                   |                 | -40°C +85°C                                                                                       |      |      |      |      |      |      |                                   |      |         |      |         |
| Leakage current max.                                                          |                 |                                                                                                   |      |      |      |      |      |      |                                   |      |         |      |         |
|                                                                               |                 | I = 0,03CV or 3µA whichever is greater (after 5 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                                                                                                | 6,3  | 10   | 16   | 25   | 35   | 50   | 63                                | 80   | 100     | 160  | 220~250 |
|                                                                               |                 | TanQ                                                                                              | 0,25 | 0,23 | 0,20 | 0,15 | 0,15 | 0,12 | 0,20                              | 0,12 | 0,12    | 0,15 | 0,20    |
| Low temperature<br>characteristics (Impedance<br>ratio at 120Jz)              | WV              | 6,3                                                                                               | 10   | 16   |      |      |      |      | 25~100                            |      | 160~250 |      |         |
|                                                                               | Z-25°C / Z+20°C | 4                                                                                                 | 3    | 2    |      |      |      |      | 2                                 |      | 3       |      |         |
|                                                                               | Z-40°C / Z+20°C | 10                                                                                                | 8    | 6    |      |      |      |      | 4                                 |      | 5       |      |         |
|                                                                               |                 |                                                                                                   |      |      |      |      |      |      |                                   |      |         |      |         |
| Load life ( after application of<br>the rated voltage for 2000hrs at<br>85°C) |                 | Leakage Current                                                                                   |      |      |      |      |      |      | Less than specified Value         |      |         |      |         |
|                                                                               |                 | Capacitance Change                                                                                |      |      |      |      |      |      | Within ±20% of 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**

| WV | 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)                        | 220           | ØD(mm) | 10,0 |
| Voltage                           | 25            | L(mm)  | 20,0 |
| Impedance (Ω)                     | -.-           | F(mm)  | 5,0  |
| Ripple Current (mA)               | 437           | Ød(mm) | 0,6  |
| ESR (Ω) max.at 20°C 10KHz         | -.-           | α(mm)  | 2    |
| 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 |
|------------------------------------|--------------------|------|---------|
|------------------------------------|--------------------|------|---------|

|                   |   |   |    |
|-------------------|---|---|----|
| I14011-2502211020 | 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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