



**THT, Radial E-Cap., NON-Polarized, Miniatur Size H=7mm, Long Lead, ROHS Conform, Packing Bulk-Ware into Polybag**

| Items                                                                      |                 | Performance Characteristics                                                                       |     |      |      |      |      |                                   |      |      |  |  |
|----------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------|-----|------|------|------|------|-----------------------------------|------|------|--|--|
| Operating temperature range                                                |                 | -40°C +85°C                                                                                       |     |      |      |      |      |                                   |      |      |  |  |
| Leakage current max.                                                       |                 |                                                                                                   |     |      |      |      |      |                                   |      |      |  |  |
|                                                                            |                 | I = 0,05CV + 10µA 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                                | 50   | 63   |  |  |
|                                                                            |                 | TanQ                                                                                              |     | 0,24 | 0,20 | 0,17 | 0,16 | 0,15                              | 0,12 | 0,10 |  |  |
| Low temperature<br>characteristics (Impedance<br>ratio at 120Jz)           |                 |                                                                                                   | 6,3 | 10   | 16   | 25   | 35   | 50                                | 63   |      |  |  |
|                                                                            | Z-25°C / Z+20°C |                                                                                                   | 4   | 3    | 2    | 2    | 2    | 2                                 | 2    |      |  |  |
|                                                                            | Z-40°C / Z+20°C |                                                                                                   | 8   | 6    | 4    | 4    | 4    | 4                                 | 4    |      |  |  |
| Load life ( after application of the<br>rated voltage for 2000hrs at 85°C) |                 | Leakage Current                                                                                   |     |      |      |      |      | Less than specified Value         |      |      |  |  |
|                                                                            |                 | Capacitance Change                                                                                |     |      |      |      |      | Within ±20% off initial Value     |      |      |  |  |
|                                                                            |                 | TanQ                                                                                              |     |      |      |      |      | Less than 150% of specified value |      |      |  |  |
|                                                                            |                 | Test method                                                                                       |     |      |      |      |      | Polarity reverse each 250 hours   |      |      |  |  |
|                                                                            |                 |                                                                                                   |     |      |      |      |      |                                   |      |      |  |  |
| 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**

|  |             |      |       |      |       |  |  |
|--|-------------|------|-------|------|-------|--|--|
|  | Frequency   | 50HZ | 120Hz | 1kHz | 10kHz |  |  |
|  | Coefficient | 0,75 | 1,00  | 1,55 | 2,00  |  |  |
|  |             |      |       |      |       |  |  |
|  |             |      |       |      |       |  |  |
|  |             |      |       |      |       |  |  |

**Technical Details**

|                                   |               |        |      |
|-----------------------------------|---------------|--------|------|
| Range (µF)                        | 6,8           | ØD(mm) | 5,0  |
| Voltage                           | 25            | L(mm)  | 7,0  |
| Impedance (Ω)                     | -.-           | F(mm)  | 2,0  |
| Ripple Current (mA)               | 33            | 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 | -.-    | -.-  |



|    |      |      |      |
|----|------|------|------|
| ØD | 4    | 5    | 6,3  |
| F  | 1,5  | 2,0  | 2,5  |
| Ød | 0,45 | 0,45 | 0,45 |
| α  | 1,0  |      |      |

|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW:  | Lexua | CHKD | Wilson | MATL:  | ChuChu | DATE  | 04.01.2025 |
| APPD: | Jimmy |      |        | FINISH | Josy   | Sheet | 1 from 2   |



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### Ordering Informations:

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

|                   |   |   |    |
|-------------------|---|---|----|
| 114118-2506R80507 | 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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