



**THT, Axialer E-Cap., For general consumer electronic products application, load life 2000 hours at 85°C, ROHS Conform, Packing / Bulk-Ware / Polybag /Box**

| Items                                                                                    |                 |                                                                                                                     | Performance Characteristics |         |                                   |         |          |                                           |          |         |         |         |
|------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------|---------|-----------------------------------|---------|----------|-------------------------------------------|----------|---------|---------|---------|
| Operating temperature range                                                              |                 | -40°C +85°C                                                                                                         |                             |         |                                   |         |          |                                           |          |         |         |         |
| Rated Voltage Range: (V)                                                                 |                 | 6,3 ~ 160V                                                                                                          |                             |         |                                   |         |          |                                           |          |         |         |         |
| Nominal Capacitance Range:( μ)                                                           |                 | 0,47μF ~ 10000μF                                                                                                    |                             |         |                                   |         |          |                                           |          |         |         |         |
| Leakage current max.                                                                     |                 | CV≤1000: I≤0,05CV or 5 whichever is greater; CV>1000; I≤0,03CV +20; C: Nominal capacitance (μF) V; Ratd Voltage (V) |                             |         |                                   |         |          |                                           |          |         |         |         |
| Capacitance tolerance                                                                    |                 | ±20% at 120Hz, 20°C                                                                                                 |                             |         |                                   |         |          |                                           |          |         |         |         |
| Dissipation factor max.<br>(at 120Hz, 20°C)                                              |                 | WV                                                                                                                  |                             | 6,3     | 10                                | 16      | 25       | 35                                        | 50       | 63      | 100     | 160     |
|                                                                                          |                 | TanQ                                                                                                                |                             | 0,3~0,5 | 0,3~0,5                           | 0,2~0,4 | 0,15~0,4 | 0,15~0,3                                  | 0,15~0,3 | 0,1~0,3 | 0,1~0,2 | 0,1~0,2 |
| Low temperature characteristics (Impedance ratio at 120Jz)                               |                 |                                                                                                                     | 6,3                         | 6,3~16  | 25~63                             | 100~160 |          |                                           |          |         |         |         |
|                                                                                          | Z-25°C / Z+20°C |                                                                                                                     | -                           | -       | -                                 | 4       |          |                                           |          |         |         |         |
|                                                                                          | Z-40°C / Z+20°C |                                                                                                                     | 7                           | 5       | 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             |          |         |         |         |
|                                                                                          |                 | Dissipation Faktor                                                                                                  |                             |         |                                   |         |          | Not more than 200% of the specified value |          |         |         |         |
|                                                                                          |                 |                                                                                                                     |                             |         |                                   |         |          |                                           |          |         |         |         |
|                                                                                          |                 | 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.                   |                             |         |                                   |         |          |                                           |          |         |         |         |
| After Test: Rated voltage to be applied for 30minutes, 24 to 48 hours before measurement |                 |                                                                                                                     |                             |         |                                   |         |          |                                           |          |         |         |         |

**Technical Details**

|                                   |               |        |      |
|-----------------------------------|---------------|--------|------|
| Range (μF)                        | 10            | ØD(mm) | 5,0  |
| Voltage (V)                       | 16            | L(mm)  | 12,0 |
| Impedance (Ω)                     | -.-           | F(mm)  | 0,0  |
| Ripple Current (mA)               | -.-           | Ød(mm) | 0,6  |
| ESR (Ω) max.at 20°C 10KHz         | -.-           | α(mm)  | 0    |
| Lifetime (hrs)                    | 2000          | -.-    | -.-  |
| Operating- Temperature Range (°C) | -40°C ~ +85°C | -.-    | -.-  |



| Lead Spacing and Diameter |                          |   |   |            |    |            |
|---------------------------|--------------------------|---|---|------------|----|------------|
| D                         | ±0,5                     |   |   | ±1,0       |    |            |
|                           | 5                        | 6 | 8 | 10         | 12 | 16,19,22   |
| D±0,1                     | 0,5 or 0,6               |   |   | 0,6 or 0,8 |    | 0,8 or 1,0 |
| a                         | ±2,0 ( L≤45); ±3,0(L>45) |   |   |            |    |            |

|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW:  | Lexua | CHKD | Wilson | MATL:  | ChuChu | DATE  | 11.12.2024 |
| APPD: | Jimmy |      |        | FINISH | Josy   | Sheet | 1 from 2   |



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### Ordering Informations:

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

|                   |   |   |    |
|-------------------|---|---|----|
| 114135-1601000512 | 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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