



**THT, Radial E-Cap., High Temperature Range, for 150°C, Laminated case Series, Suited for automobile electronics where heavy duty services are indispensable, Long Lead, ROHS Conform, Packing Bulk-Ware into Polybag**

| Items                                                                    |                 | Performance Characteristics                                                                       |      |                                   |      |      |      |                                       |      |          |          |          |
|--------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------|------|-----------------------------------|------|------|------|---------------------------------------|------|----------|----------|----------|
| Operating temperature range                                              |                 | -55°C +150°C (10V~100V), -40 to ~150°C (160,200V), -25 to ~ +150°C (350V, 400V)                   |      |                                   |      |      |      |                                       |      |          |          |          |
| Leakage current max.                                                     |                 | WV≤100                                                                                            |      |                                   |      |      |      | WV≥100                                |      |          |          |          |
|                                                                          |                 | I = 0,03CV + 4µA whichever is greater (after 1 minutes)                                           |      |                                   |      |      |      | I = 0,04CV + 100µA ( after 1 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                                                                                                | 10   | 16                                | 25   | 35   | 50   | 63                                    | 80   | 100      | 160, 200 | 350, 400 |
|                                                                          |                 | TanQ                                                                                              | 0,20 | 0,16                              | 0,14 | 0,12 | 0,10 | 0,10                                  | 0,08 | 0,08     | 0,20     | 0,24     |
| Low temperature characteristics (Impedance ratio at 120Jz)               | WV              | 10                                                                                                | 16   | 25                                | 35   | 50   | 63   | 80                                    | 100  | 160, 200 | 350, 400 |          |
|                                                                          | Z-25°C / Z+20°C | 3                                                                                                 | 2    | 2                                 | 2    | 2    | 2    | 2                                     | 2    | 3        | 6        |          |
|                                                                          | Z-40°C / Z+20°C | 4                                                                                                 | 4    | 4                                 | 4    | 4    | 4    | 4                                     | 4    | 6        | -        |          |
| Load life ( after application of the rated voltage for 2000hrs at 150°C) |                 | WV                                                                                                |      | 10 ~ 100                          |      |      |      | 160 ~ 400                             |      |          |          |          |
|                                                                          |                 | Leakage Current                                                                                   |      | Less than specified Value         |      |      |      |                                       |      |          |          |          |
|                                                                          |                 | Capacitance Change                                                                                |      | Within ±30% off initial Value     |      |      |      | Within ±20% off initial Value         |      |          |          |          |
|                                                                          |                 | TanQ                                                                                              |      | Less than 300% of specified value |      |      |      | Less than 200% of specified value     |      |          |          |          |
|                                                                          |                 |                                                                                                   |      | Ø10, Ø12,5: 1000Hours;            |      |      |      |                                       |      |          |          |          |
| Shelf life (at 150°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      | CV/ Frequency | 120Hz | 300Hz | 1kHz  | 10kHz≤ |       |         |
|---------|---------------|-------|-------|-------|--------|-------|---------|
| 10~100  | 1000>CV       | 0,50  | 0,64  | 0,83  | 1,00   |       |         |
|         | 1000≤ CV      | 0,67  | 0,79  | 0,91  | 1,00   |       |         |
| 160~400 | μF/ Frequency | 50Hz  | 120Hz | 300Hz | 1kHz   | 10kHz | 100kHz≤ |
|         | 4,7 ~ 33      | 0,75  | 1,00  | 1,25  | 1,50   | 1,75  | 1,80    |
|         | 47 ~ 100      | 0,80  | 1,00  | 1,25  | 1,50   | 1,40  | 1,50    |

**Technical Details**

|                                   |                |        |      |
|-----------------------------------|----------------|--------|------|
| Range (μF)                        | 2,2            | ØD(mm) | 10,0 |
| Voltage                           | 35             | L(mm)  | 12,5 |
| Impedance (Ω)                     | -.-            | F(mm)  | 5,0  |
| Ripple Current (mA)               | 50             | Ød(mm) | 0,6  |
| ESR (Ω) max.at 20°C 10KHz         | -.-            | α(mm)  | 2    |
| Lifetime (hrs)                    | 1000           | -.-    | -.-  |
| Operating- Temperature Range (°C) | -55°C ~ +150°C | -.-    | -.-  |



|    |     |      |     |     |
|----|-----|------|-----|-----|
| ØD | 10  | 12,5 | 16  | 18  |
| F  | 5,0 | 5,0  | 7,5 | 7,5 |
| Ød | 0,6 |      | 0,8 |     |
| α  | 2,0 |      |     |     |

|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW:  | Lexua | CHKD | Wilson | MATL:  | ChuChu | DATE  | 23.12.2024 |
| APPD: | Jimmy |      |        | FINISH | Josy   | Sheet | 1 from 2   |



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### Ordering Informations:

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

|                   |   |   |    |
|-------------------|---|---|----|
| 114073-3502R21013 | 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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