



**THT, Radial E-Cap., Snap-In, ,105°C High Speed charge discharge, Suited for high frequency voltage for AC servomotor, general inverter, Suited for equipment used at voltage fluctuating area, suited for rectifier circuit of voltage doubler, ROHS Conform, Packing Box**

| Items                                                                    |  |  | Performance Characteristics                                              |  |  |      |      |                                   |      |  |  |  |  |
|--------------------------------------------------------------------------|--|--|--------------------------------------------------------------------------|--|--|------|------|-----------------------------------|------|--|--|--|--|
| Operating temperature range                                              |  |  | -40°C ~ +105°C                                                           |  |  |      |      |                                   |      |  |  |  |  |
| Leakage current max.                                                     |  |  | I=3 √cv (μA) (after 5 minutes)                                           |  |  |      |      |                                   |      |  |  |  |  |
|                                                                          |  |  |                                                                          |  |  |      |      |                                   |      |  |  |  |  |
|                                                                          |  |  |                                                                          |  |  |      |      |                                   |      |  |  |  |  |
| Capacitance tolerance                                                    |  |  | ±20% at 120Hz, 20°C                                                      |  |  |      |      |                                   |      |  |  |  |  |
| Dissipation factor max.<br>(at 120Hz, 20°C)                              |  |  |                                                                          |  |  |      |      |                                   |      |  |  |  |  |
|                                                                          |  |  | WV                                                                       |  |  | 350  | 400  | 420                               | 450  |  |  |  |  |
|                                                                          |  |  | TanQ                                                                     |  |  | 0,15 | 0,15 | 0,20                              | 0,20 |  |  |  |  |
|                                                                          |  |  |                                                                          |  |  |      |      |                                   |      |  |  |  |  |
|                                                                          |  |  |                                                                          |  |  |      |      |                                   |      |  |  |  |  |
|                                                                          |  |  |                                                                          |  |  |      |      |                                   |      |  |  |  |  |
| Endurance of charge-discharge behavior                                   |  |  | Leckage Current                                                          |  |  |      |      | Less than specified Value         |      |  |  |  |  |
|                                                                          |  |  | Capacitance Change                                                       |  |  |      |      | Within ±20% off initial Value     |      |  |  |  |  |
|                                                                          |  |  | TanQ                                                                     |  |  |      |      | Less than 300% of specified value |      |  |  |  |  |
| Load life ( after application of the rated voltage for 2000hrs at 105°C) |  |  | Leckage Current                                                          |  |  |      |      | Less than specified Value         |      |  |  |  |  |
|                                                                          |  |  | Capacitance Change                                                       |  |  |      |      | Within ±20% off initial Value     |      |  |  |  |  |
|                                                                          |  |  | TanQ                                                                     |  |  |      |      | Less than 200% of specified value |      |  |  |  |  |
| Shelf life ( at 105°C )                                                  |  |  | Shell Life ( after leaving capacitor under no load at 105°C for 1000hrs) |  |  |      |      |                                   |      |  |  |  |  |

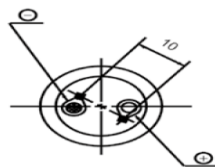
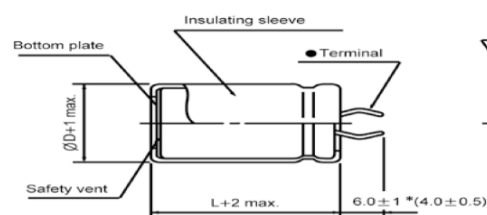
#### FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

| WV / Frequency | 50HZ | 60HZ | 120Hz | 300Hz | 1kHz | 10kHz | 50kHz≤ |
|----------------|------|------|-------|-------|------|-------|--------|
| 350 ~ 450      | 0,77 | 0,82 | 1,00  | 1,16  | 1,30 | 1,41  | 1,43   |
|                |      |      |       |       |      |       |        |
|                |      |      |       |       |      |       |        |
|                |      |      |       |       |      |       |        |
|                |      |      |       |       |      |       |        |

#### Technical Details

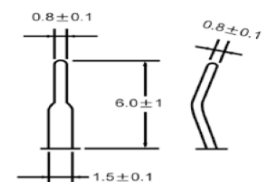
|                                   |                 |        |      |
|-----------------------------------|-----------------|--------|------|
| Range (μF)                        | 100             | ØD(mm) | 22,0 |
| Voltage                           | 400             | L(mm)  | 25,0 |
| Impedance (Ω)                     | -. -            | F(mm)  | 10,0 |
| Ripple Current (mA)               | 0,68            | Ød(mm) | 0    |
| ESR (Ω) max.at 20°C 10KHz         | -. -            | α(mm)  | 0    |
| Lifetime (hrs)                    | 3000            | -. -   | 2,0  |
| Operating- Temperature Range (°C) | -.25°C ~ +105°C | -. -   | -. - |

ØD≤40



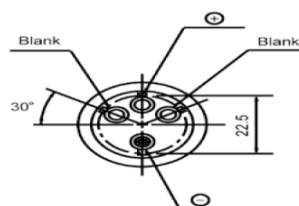
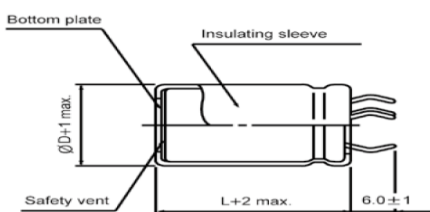
PC Board Mounting Holes

Terminal

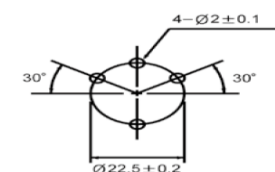


\* Shorter terminal(4.0±0.5) is also available upon request.  
Terminal length of height 20mm products is applied shorter terminal to standard terminal type.

ØD=35, 40



PC Board Mounting Holes



|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW:  | Lexua | CHKD | Wilson | MATL:  | ChuChu | DATE  | 15.01.2025 |
| APPD: | Jimmy |      |        | FINISH | Josy   | Sheet | 1 from 2   |

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### Ordering Informations:

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

|                   |   |   |    |
|-------------------|---|---|----|
| I14089-4011012225 | M | R | BU |
|-------------------|---|---|----|

| Serie | Voltage (V) | Range $\mu$ H) | D * L (mm) | Tolerance Order Code | R= ROHS<br>N= NON ROHS | BU= Bulk-Ware (Box) |
|-------|-------------|----------------|------------|----------------------|------------------------|---------------------|
|       |             |                |            |                      |                        |                     |
|       |             |                |            |                      |                        |                     |

### Soldering Information

#### Lead Solder Performance



#### Lead free Solder Performance



|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW:  | Lexua | CHKD | Wilson | MATL:  | ChuChu | DATE  | 15.01.2025 |
| APPD: | Jimmy |      |        | FINISH | Josy   | Sheet | 2 from 2   |