

# TS13E CDHPM

## FEATURES

- By using Functional Polymer cathode, Frequency and temperature character are greatly improved.
- Ultra low ESR at a high frequency range
- High ripple current capability
- Long life and high reliability

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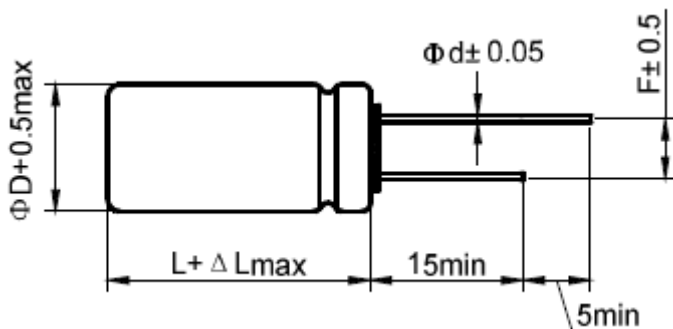
- Switching Power Supply and DC/DC Converter
- Back up Power Supply of CPU (VRM etc)
- Miniature high Power Supply

## ◆ Specifications

| I T E M S                           |                 | C H A R A C T E R I S T I C S         |  |
|-------------------------------------|-----------------|---------------------------------------|--|
| Operating Temperature Range(°C)     |                 | -55~+105                              |  |
| Capacitance Tolerance (20°C, 120Hz) |                 | ±20%                                  |  |
| Endurance                           | Condition       | 105°C, 2000h at rated voltage         |  |
|                                     | Capacitance     | Within ±20% of the value before test  |  |
|                                     | Leakage Current | Less than the specified value         |  |
|                                     | Tan $\delta$    | Less than 150% of the specified value |  |
| Reliability                         |                 | 0.1%, 1000h Max                       |  |
| Others                              |                 | JIS-C-510-4                           |  |

## ◆ Dimensions

mm



| Ø D x L<br>(mm) | ΔL<br>(mm) | Ød<br>(mm) | F<br>(mm) |
|-----------------|------------|------------|-----------|
| 8x8             | 1.0        | 0.6        | 3.5       |

## ◆ STANDARD RATINGS

| Rated Voltage<br>(V) | Capacitance<br>(μF) | Leakage Current<br>(μA) | Tan $\delta$<br>(120Hz) | ESR<br>100kHz<br>(mΩ) | Max Ripple Current<br>100KHz 105°C<br>(m Arms) | ØDxL<br>(mm) |
|----------------------|---------------------|-------------------------|-------------------------|-----------------------|------------------------------------------------|--------------|
| 2.5                  | 560                 | 500.0                   | 0.12                    | 6                     | 4400                                           | Ø8x8         |
|                      | 820                 | 512.5                   | 0.12                    | 8                     | 5600                                           | Ø8x8         |
|                      | 1000                | 625.0                   | 0.12                    | 6                     | 5600                                           | Ø8x8         |
|                      | 1500                | 750.0                   | 0.12                    | 6                     | 5600                                           | Ø8x8         |
| 4                    | 560                 | 560.0                   | 0.12                    | 6                     | 5600                                           | Ø8x8         |
|                      | 820                 | 820.0                   | 0.12                    | 6                     | 5600                                           | Ø8x8         |
| 6.3                  | 680                 | 856.0                   | 0.12                    | 6                     | 5600                                           | Ø8x8         |

Note: Specification are subject to change without notice. For more detail and update, please visit our website.