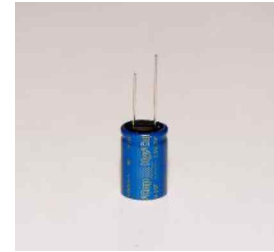


# EDLC 3.0V 25F

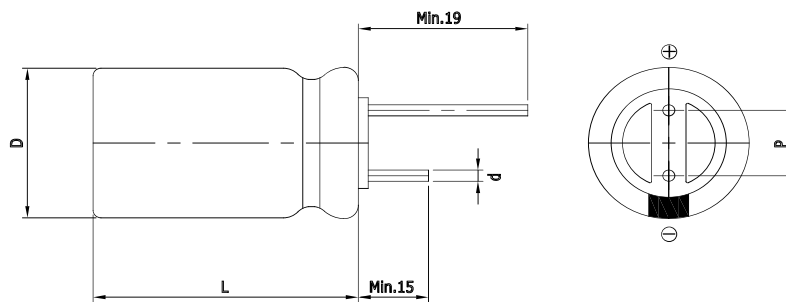


## FEATURES

- Electric double layer capacitor
- Higher power density with ultra low ESR
- Semi-permanent, quick charge and discharge than batteries
- Suitable for short-term peak power assistance application
- UL and ISO/TS certificated, RoHS compliant
- Radial design with lead terminal type



## DIMENSIONS



| Dimensions in mm |         |         |         |
|------------------|---------|---------|---------|
| D +1.0 Max       | L ± 1.5 | d ± 0.1 | P ± 0.5 |
| Φ16.0            | 25.0    | Φ0.8    | 7.5     |

This drawing is not to be scaled.

## SPECIFICATIONS

| Part Number    | Rated Voltage, $V_R$<br>(V) | Rated Capacitance<br>(F) | AC ESR<br>1kHz<br>(mΩ) | DC IR<br>(mΩ) | Maximum Current<br>(A) | Leakage Current<br>(mA) | Stored Energy<br>(J) | Dimension<br>D x L<br>(mm) | Weight<br>(g) |
|----------------|-----------------------------|--------------------------|------------------------|---------------|------------------------|-------------------------|----------------------|----------------------------|---------------|
| VEC 3R0 256 QG | 3.0                         | 25.                      | 20.00                  | 30.00         | 21.                    | 0.075                   | 112.5                | 16.0 x 25.0                | 7.2           |

\* Maximum Current: 1 second discharge to  $\frac{1}{2} \cdot V_R$

\* Leakage Current: After 72hours at  $V_R$  and 25°C

| Item  | Characteristics | Remarks  |
|---|-----------------|--|
| Rated Voltage( $V_R$ )                              | 3.0V            |  |
| Capacitance Tolerance                               | -10 ~ 30%       |  |
| Operating Temperature<br>( $T_{min} \sim T_{max}$ ) | -40 ~ +65°C     | $ \Delta cap  \leq 30\%$ of initial value at 25°C<br>$ \Delta ESR  \leq 100\%$ of specified value at 25°C<br>After 1,000 hours application of $V_R$ at $T_{max}$                         |
| Storage Temperature                                 | -40 ~ 70°C      |  |
| Cycle Life  | 500,000 cycles  | $ \Delta cap  \leq 30\%$ of initial value at 25°C<br>$ \Delta ESR  \leq 100\%$ of specified value at 25°C<br>Cycles from $V_R$ to $\frac{1}{2} \cdot V_R$ under constant current at 25°C |
| Shelf Life  | 2 years         | $ \Delta cap  \leq 10\%$ of initial value at 25°C<br>$ \Delta ESR  \leq 50\%$ of specified value at 25°C<br>Without electrical charge under $T_{max}$                                    |