

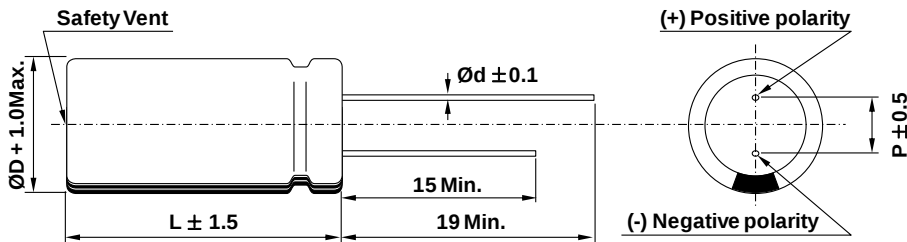
## FEATURES

### EDLC (Electric Double Layer Capacitor)

- High Power Density (Low ESR)
- Over 500,000 cycle life (semi-permanent)
- Higher energy density compared with 2.7V caps
- RoHS compliant



## Drawing



|        |     |
|--------|-----|
| D (Φ)  | 8   |
| d (Φ)  | 0.6 |
| P (mm) | 3.5 |

## SPECIFICATION

| ITEM                            |        | CHARACTERISTICS                                                                                                             |                              |
|---------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Product series                  |        | EDLC                                                                                                                        |                              |
| Rated Voltage (V <sub>R</sub> ) |        | 3.0V                                                                                                                        |                              |
| Operating Temperature           |        | -40 ~ +65 °C                                                                                                                |                              |
| Capacitance Tolerance           |        | -10 ~ +30%                                                                                                                  |                              |
| High Temperature Load Life      |        | After 1,000 hours at V <sub>R</sub> loaded under +65 °C, capacitors meet the following criteria.                            |                              |
|                                 |        | Capacitance Change                                                                                                          | ≤ 30% of initial value       |
|                                 |        | ESR                                                                                                                         | ≤ 2 times of specified value |
|                                 |        | 85°C Higher Temperature                                                                                                     | Max. 2.4V                    |
| Cycle Life Characteristics      | Cycle  | Over 500,000                                                                                                                |                              |
|                                 | △C     | ≤ 30% of initial value                                                                                                      |                              |
|                                 | ESR    | ≤ 2 times of specified value                                                                                                |                              |
|                                 | Method | Cycle of Charge/discharge from V <sub>R</sub> to 1/2V <sub>R</sub>                                                          |                              |
| Shelf Life                      |        | 2 Years<br>No Electrical Charge, Temperature below 70 °C<br>(△C : ≤ 10% of initial value / △ESR : ≤ 50% of specified value) |                              |

| Part Number    | Rated Voltage (V) | Capacitance (F) | ESR (mΩ) |     | Max. Current (A) | Leakage Current (μA, 72hr) | Weight (g) | Volume (ml) |
|----------------|-------------------|-----------------|----------|-----|------------------|----------------------------|------------|-------------|
|                |                   |                 | AC(1kHz) | DC  |                  |                            |            |             |
| VEC 3R0 105 QG | 3.0               | 1               | 145      | 220 | 1.0              | 0.003                      | 1.1        | 0.7         |

\* Max. Current : 1 sec. discharge to  $1/2V_R$