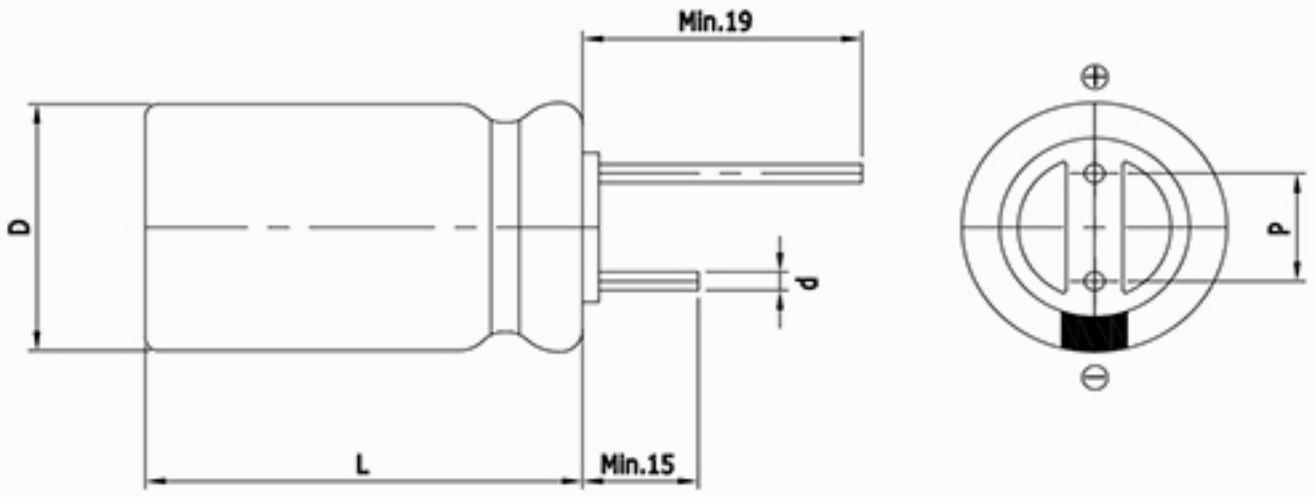
# Hybrid Capacitor 2.3V 120F

## FEATURES

Characteristics of EDLC and pseudo-capacitor
Higher capacitance, 2 times of EDLC
Semi-permanent, quick charge and discharge than batteries
Suitable for long-term with low current backup applications
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 |
| Φ18.0 | 40.0 | Φ0.8 | 7.5 |

This drawing is not to be scaled.

## SPECIFICATIONS

| Part Number | Rated Voltage, $V_R$ | Rated Capacitance | AC ESR 1kHz | DC IR | Maximum Current | Leakage Current | Stored Energy | Dimension D x L | Weight |
|---|---|---|---|---|---|---|---|---|---|
| | (V) | (F) | (mΩ) | (mΩ) | (A) | (mA) | (J) | (mm) | (g) |
| VHC 2R3 127 QG | 2.3 | 120. | 45.00 | 80.00 | 3. | 0.240 | 317.4 | 18.0 x 40.0 | 16.0 |

* Maximum Current: 60 seconds discharge to ½·$V_R$
* Leakage Current: After 72hours at $V_R$ and 25℃

| Item | Characteristics | Remarks |
|---|---|---|
| Rated Voltage($V_R$) | 2.3V | Cut-off voltage: 0.9V |
| Capacitance Tolerance | -10 ~ +30% | |
| Operating Temperature ($T_{min}$ ~ $T_{max}$) | -25 ~ +60℃ | \|Δcap\| ≤ 30% of initial value at 25℃<br>\|ΔESR\| ≤ 100% of specified value at 25℃<br>After 1,000 hours application of $V_R$ at $T_{max}$ |
| Storage Temperature | -20 ~ +70℃ | |
| Cycle Life | 100,000 cycles | \|Δcap\| ≤ 30% of initial value at 25℃<br>\|ΔESR\| ≤ 100% of specified value at 25℃<br>Cycles from $V_R$ to ½·$V_R$ under constant current at 25℃ |
| Shelf Life | 2 years | \|Δcap\| ≤ 10% of initial value at 25℃<br>\|ΔESR\| ≤ 50% of specified value at 25℃<br>Without electrical charge under $T_{max}$ |