

# Hybrid Capacitor 2.3V 10F

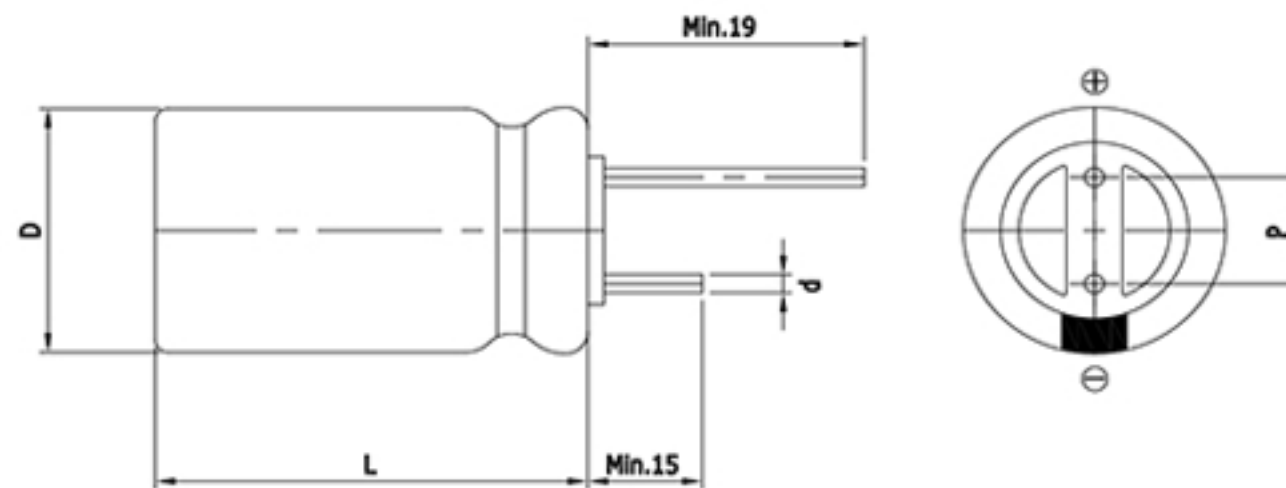


## FEATURES

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
Φ10.0	20.0	Φ0.6	5.0

This drawing is not to be scaled.

## SPECIFICATIONS

Part Number	Rated Voltage, $V_R$ (V)	Rated Capacitance (F)	AC ESR 1kHz (mΩ)	DC IR (mΩ)	Maximum Current (A)	Leakage Current (mA)	Stored Energy (J)	Dimension D x L (mm)	Weight (g)
VHC 2R3 106 QG	2.3	10.	220.00	700.00	0.5	0.020	26.5	10.0 x 20.0	2.5

\* Maximum Current: 60 seconds discharge to  $\frac{1}{2} \cdot V_R$

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

Item	Characteristics	Remarks
Rated Voltage( $V_R$ )	2.3V	Cut-off voltage: 0.9V
Capacitance Tolerance	-10 ~ +30%	
Operating Temperature ( $T_{min} \sim T_{max}$ )	-25 ~ +60 °C	$ \Delta cap  \leq 30\%$ of initial value at 25°C $ \Delta ESR  \leq 100\%$ of specified value at 25°C After 1,000 hours application of $V_R$ at $T_{max}$
Storage Temperature	-20 ~ +70 °C	
Cycle Life	100,000 cycles	$ \Delta cap  \leq 30\%$ of initial value at 25°C $ \Delta ESR  \leq 100\%$ of specified value at 25°C 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 $ \Delta ESR  \leq 50\%$ of specified value at 25°C Without electrical charge under $T_{max}$