

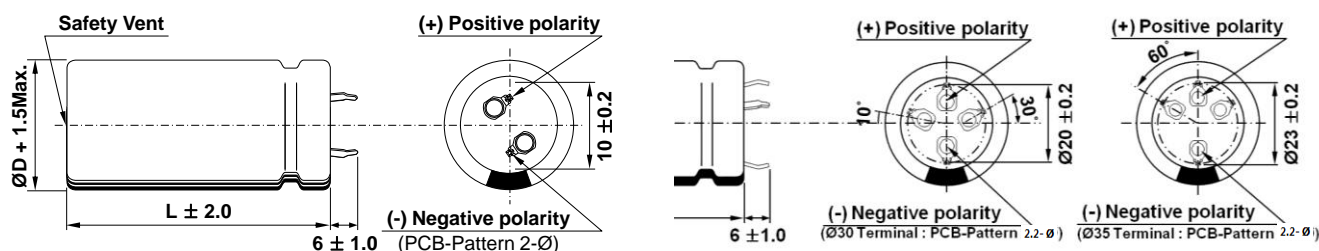
## FEATURES

### 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



## SPECIFICATION

ITEM		CHARACTERISTICS	
Product series		EDLC	
Rated Voltage ( $V_R$ )		3.0V	
Operating Temperature		-40 ~ +65 °C	
Capacitance Tolerance		-10 ~ +30%	
High Temperature Load Life		After 1,000 hours at $V_R$ 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	
	$\Delta C$	≤ 30% of initial value	
	ESR	≤ 2 times of specified value	
	Method	Cycle of Charge/discharge from $V_R$ to $1/2V_R$	
Shelf Life		2 Years No Electrical Charge, Temperature below 70 °C ( $\Delta C$ : ≤ 10% of initial value / $\Delta ESR$ : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)	Weight (g)	Volume (ml)
			AC(1kHz)	DC				
VEC 3R0 507 QG	3.0	500	3.0	4.5	230.0	1.500	96.0	78.9

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