

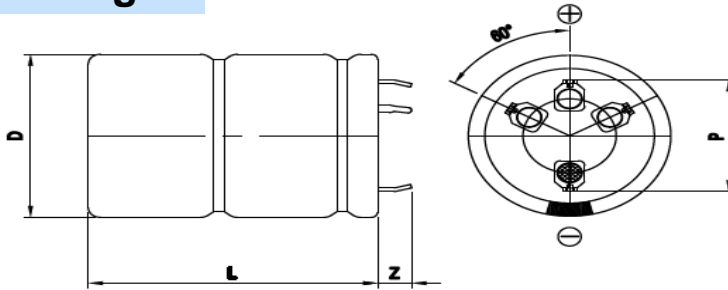
## Features

### 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)	35 +1.5 Max
L (mm)	82 ±2.0
Z (mm)	6.0 ±1.0
P (mm)	23.0 ±0.2

## 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 Temperature	Max. 2.4V
Cycle Life Characteristics	Cycle	Over 500,000	
	ΔC	≤ 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 No Electrical Charge, Temperature below 70°C (ΔC : ≤ 10% of initial value / ΔESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)	Size(mm)
			AC(1kHz)	DC			D x L
VEC 3R0 507 QG	3.0	500	3.0	4.5	230.0	1.500	35 x 82

\* Max. Current : 1 sec. discharge to 1/2V<sub>R</sub>

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