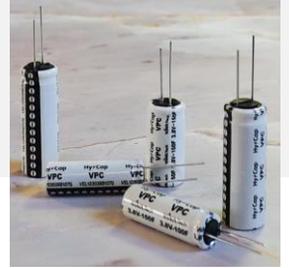


# 3.8V 30F (0820)

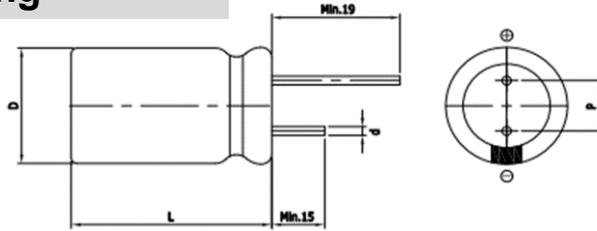
## Features

### VPC (Vina Pulse Capacitor)

- Low Self Discharge
- Wide Temperature Range
- High Operating Voltage
- High Capacitance



## Drawing



| Size   | 0820         |
|--------|--------------|
| D (Φ)  | 8.0 +1.0 Max |
| L (mm) | 20.0 ±1.5    |
| d (Φ)  | 0.8 ±0.1     |
| P (mm) | 3.5 ±0.5     |

## Specification

| Items                           | Characteristics   |
|---------------------------------|---|
| Rated Voltage (V <sub>R</sub> ) | 3.8V  |
| Operating voltage               | 3.8V ~ 2.5V   |
| Surge voltage                   | 4.0V  |
| Operating temperature           | -25°C to +70°C  |
| Capacitance Tolerance           | -10% +30%   |
| High Temperature Load Life      | After 1,000 hours at V <sub>R</sub> loaded at 70°C, capacitor shall meet the following limits |
|                                 | Capacitance change ≤ 30% of initial value   |
|                                 | ESR change ≤ 200% of initial spec. value  |
| Projected cycle life            | 20,000 Cycle (100% DoD, at 25°C, cut-off voltage: 2.5V, C/D current: 0.22A)                   |
|                                 | Capacitance change ≤ 30% of initial value   |
|                                 | ESR change ≤ 200% of initial spec. value  |
| Shelf life                      | 3 Years (No electrical charge, Temperature below 25°C)  |
|                                 | Capacitance change ≤ 10% of initial value   |
|                                 | ESR change ≤ 100% of initial spec. value  |

| Part Number    | Capacitance (F) #1 | Capacity (mAh) | ESR (mΩ)              |              | Leakage Current (μA) | Rated Current (A) | Pulse Discharge Current (A) #2 | Pulse Charge Current (A) | Max Charge Voltage (V) #3 | Weight (g) |
|----------------|--------------------|----------------|-----------------------|--------------|----------------------|-------------------|--------------------------------|--------------------------|---------------------------|------------|
|                |                    |                | AC                    | DC           |                      |                   |                                |                          |                           |            |
| VEL08203R8306G | 30<br>@25°C        | 11<br>@25°C    | 350<br>@25°C,<br>1KHz | 700<br>@25°C | 1<br>@25°C,<br>72hr  | 0.10<br>@25°C     | 0.5<br>@25°C                   | 0.6<br>@25°C             | 3.85<br>@25°C             | 1.9±0.2    |

#1 : Reference IEC62813 4.2

#2 : 1sec. Discharge to 3.2V

#3 : If the charging voltage is continuously used at 3.85V, the lifespan is reduced by 10%

**WARNING : precautions must be taken to ensure that device leads are not shorted**