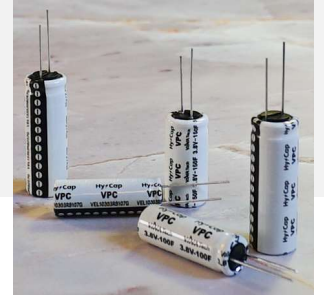


3.8V 50F (0825)

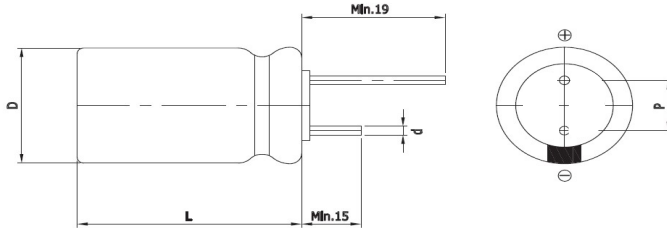
Features

VPC (Vina Pulse Capacitor)

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



Drawing



Size	0825
D (Φ)	8.0 +1.0 Max
L (mm)	25.0 ±1.5
d (Φ)	0.8 ±0.1
P (mm)	3.5 ±0.5

Specification

Items	Characteristics			
Rated Voltage (V _R)	3.8V			
Operating voltage	3.8V ~ 2.5V			
Surge voltage	4.0V			
Operating temperature	-25°C to +70°C			
Capacitance Tolerance	-5% +20%			
High Temperature Load Life	After 1,000 hours at V _R loaded at 70°C, capacitor shall meet the following limits			
	<table border="1"> <tr> <td>Capacitance change</td> <td>≤ 30% of initial value</td> </tr> <tr> <td>ESR change</td> <td>≤ 200% of initial spec. value</td> </tr> </table>	Capacitance change	≤ 30% of initial value	ESR change
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)			
	<table border="1"> <tr> <td>Capacitance change</td> <td>≤ 30% of initial value</td> </tr> <tr> <td>ESR change</td> <td>≤ 200% of initial spec. value</td> </tr> </table>	Capacitance change	≤ 30% of initial value	ESR change
Capacitance change	≤ 30% of initial value			
ESR change	≤ 200% of initial spec. value			
Shelf life	3 Years (No electrical charge, Temperature below 25°C)			
	<table border="1"> <tr> <td>Capacitance change</td> <td>≤ 10% of initial value</td> </tr> <tr> <td>ESR change</td> <td>≤ 100% of initial spec. value</td> </tr> </table>	Capacitance change	≤ 10% of initial value	ESR change
Capacitance change	≤ 10% of initial value			
ESR change	≤ 100% of initial spec. value			

Part Number	Capacitance (F) #1	ESR (mΩ)		Leakage Current (μA)	Rated Current (A)	Pulse Current (A) #2	Max Charge Current (A)	Max Charge Voltage (V) #3	Weight (g)
		AC	DC						
VEL08253R8506G	50 @25°C	210 @25°C, 1KHz	500 @25°C	1 @25°C, 72hr	0.15 @25°C	0.5 @25°C	1.0 @25°C	3.85 @25°C	2.5±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