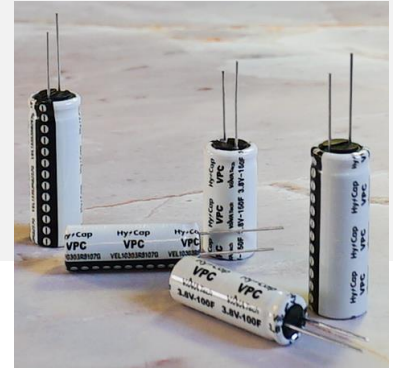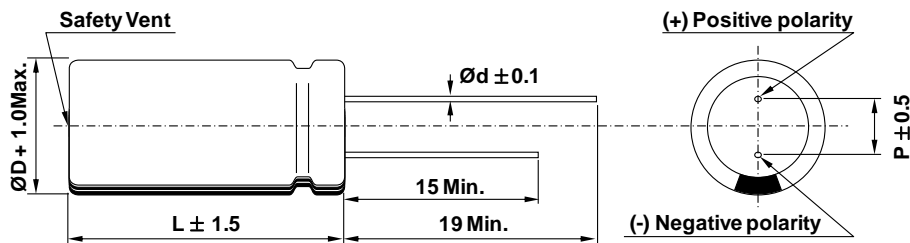# 3.8V VPC Series - Lead terminal

Features

VPC (Vina Pulse Capacitor)

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

Drawing

D(Φ)	8	10, 13
d(Φ)	0.8	0.8
P(mm)	3.5	5.0

Specification

Items	Characteristics	
Rated Voltage (V_R)	3.8V	
Operating voltage	3.8V ~ 2.5V	
Surge voltage	4.0V	
Operating temperature	-25℃ to +70℃	
Capacitance Tolerance	-10% +30%	
High Temperature Load Life	After 1,000 hours at V_R loaded at 70℃, 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℃, cut-off voltage: 2.5V)	
	Capacitance change	≤ 30% of initial value
	ESR change	≤ 200% of initial spec. value
Shelf life	3 Years (No electrical charge, Temperature below 25℃)	
	Capacitance change	≤ 10% of initial value
	ESR change	≤ 100% of initial spec. value

3.8V VPC Series - Lead terminal

Part Number	Capacitance (F) #1	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	350	700	1	0.10	0.5	0.6	3.85	1.9±0.2
VEL08253R8506G	50	210	500	1	0.15	0.5	1.0	3.85	2.5±0.2
VEL10303R8107G	100	100	200	5	0.4	2.0	3.0	3.85	4.4±0.3
VEL10403R8157D	150	70	140	7	0.5	3.0	5.0	3.85	5.8±0.3
VEL13253R8157G	150	70	140	7	0.5	3.0	5.0	3.85	6.2±0.3
VEL13353R8257G	250	50	100	10	0.75	5.0	8.0	3.85	8.2±0.3

#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%
#4: Test condition: room temperature

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