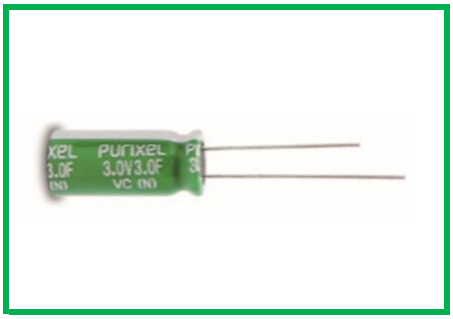
Purixel(ELECTRIC DOUBLE LAYER CAPACITORS)

PVC

Radial Type
Standard Series

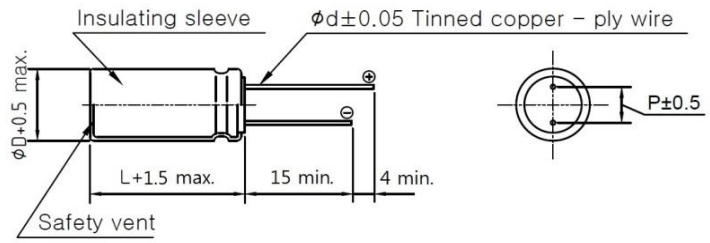
· Endurance : 3.0V 65℃ 1000 hours
· Small size, high capacitance and low resistance
· Longer cycle life than other secondary batteries



Item	Characteristics	
Operating Temperature Range	-40 ~ +65℃	
Rated Voltage	3.0 VDC	
Capacitance Tolerance	-10% ~ +20%	
Temperature Characteristics	Capacitance change: Within ±5% of initial value at +25℃ Internal resistance: Within ±50% of initial value at +25℃	
Endurance	Duration: 1000 hours Capacitance charge: Within ≤30% of initial value Internal resistance: Within ≤100% of initial specified value	
Shelf Life	After 1000 hours no load test same as endurance	
Life Time at RT(1)	10 years	(1) |ΔC| ≤30% of initial value and |ESR| ≤100% of initial specified value. (2) Cycle : between rated voltage and half rated voltage under constant current at 25 ℃
Cycle Life(25℃)(1)(2)	500,000 cycles	

• DIMENSIONS

Unit : mm



D	L	P	Φd
8.0	20.0	3.5	0.6

• SPECIFICATIONS

Rated Voltage	Cap.	ESR, 1kHz	ESR, DC	LC(72hr)	Specific Energy	Specific Power	Max. Peak Current	Weight	Volume	PART No.
V	F	mΩ	mΩ	mA	Wh/kg	kW/kg	A	g	mL	
3.0	3	45	70	0.010	2.34	20.09	3.72	1.60	1.00	PVC03R0SN30508020

1. Capacitance and Equivalent Series Resistance (ESR) measured according to IEC62391-1 at +25°C, with current in milliamps (mA) = 10*C
2. Leakage Current at 25°C after 72 hours charge and hold
3. Specific Energy (Wh/kg) = (½*C*V^2/3600)/weight
4. Specific Power (kW/kg) = (V^2/4*ESR)/weight
5. Max Peak Current in Amps (A), 1 second discharge from rated voltage to half rated voltage = (½*C*V)/(1+ESR*C)