Purixel(ELECTRIC DOUBLE LAYER CAPACITORS)

PEC

Module Type
Standard Series

· Endurance : 5.4V 65℃ 1500 hours
· Small size, high capacitance and low resistance
· Longer cycle life than other secondary batteries

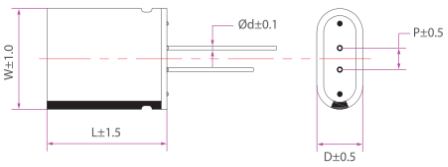
Item	Characteristics	
Operating Temperature Range	-40 ~ +65℃	
Rated Voltage	5.4 VDC	
Capacitance Tolerance	-10% ~ +20%	
Temperature Characteristics	Capacitance change	Within ±5% of initial value at +25℃
	Internal resistance	Within ±50% of initial value at +25℃
Endurance	Duration	1500 hours
	Capacitance charge	Within ≤30% of initial value
	Internal resistance	Within ≤100% of initial specified value
Shelf Life	After 1500 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.
Cycle Life(25℃)(2)	500,000 cycles	(2) Cycle : between rated voltage and half rated voltage under constant current at 25℃

● DIMENSIONS

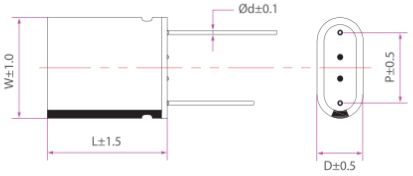
Unit : mm

L	W	D	P			Φd	Single Cell Size
			Type-C	Type-S	Type-H		ΦD x L
32.0	21.0	10.5	5.5	15.5	10.5	0.6	10 x 20

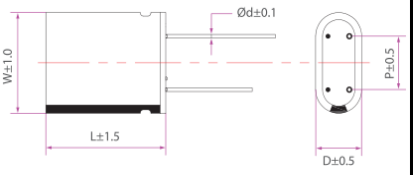
Module Type - C



Module Type - S



Module Type - H



● SPECIFICATIONS

Rated Voltage	Cap.	ESR, 1kHz	ESR, DC	LC(72hr)	Specific Energy	Specific Power	Max. Peak Current	Weight	PART No.
V	F	mΩ	mΩ	mA	Wh/Kg	kW/kg	A	g	
5.4	5.0	50	80	0.046	2.89	13.02	9.64	7.00	PEC05H4MN50510030

1. Capacitance and Equivalent Series Resistance (ESR) measured according to IEC62391-1 at +25℃, with current in milliamps (mA) = 10*C
2. Leakage Current at 25℃ after 72 hour 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)