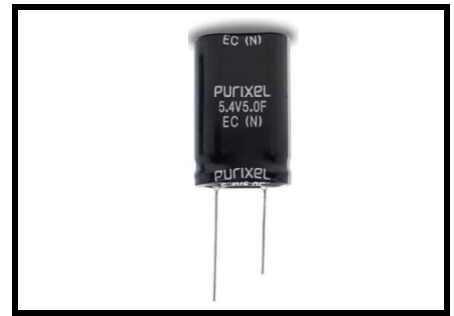


# Purixel(ELECTRIC DOUBLE LAYER CAPACITORS)

# PEC

Module Type  
Standard Series



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

Item	Characteristics	
Operating Temperature Range	-40 ~ +65°C	
Rated Voltage	5.4 VDC	
Capacitance Tolerance	-10% ~ +20%	
Temperature Characteristics	Capacitance change	Within ±5% of initial value at +25°C
	Internal resistance	Within ±50% of initial value at +25°C
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 <sup>(1)</sup>	10 years	(1) $ \Delta C  \leq 30\%$ of initial value and $ ESR  \leq 100\%$ of initial specified value.
Cycle Life(25°C) <sup>(2)</sup>	500,000 cycles	(2) Cycle : between rated voltage and half rated voltage under constant current at 25°C

## • DIMENSIONS

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 30

Unit : mm

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	

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 hour charge and hold
3. Specific Energy (Wh/kg) =  $(\frac{1}{2} * C * V^2) / 3600 / \text{weight}$
4. Specific Power (kW/kg) =  $(V^2 / 4 * ESR) / \text{weight}$
5. Max Peak Current in Amps (A), 1 second discharge from rated voltage to half rated voltage =  $(\frac{1}{2} * C * V) / (1 + ESR * C)$