

## EnyGy® enyCap Series, Radial Type (Electric Double Layer Capacitors)

Datasheet EC3R010722045S

- Endurance: 3.0V 65°C 1000 hours
- High capacitance and small size
- Low ESR

- Long cycle life
- UL recognized
- RoHS compliant





## **Specifications**

Part Number	EC3R010722045S	
Rated Voltage	V	3.0
Capacitance	F	100
ESR, 1kHz	mΩ	8
ESR, DC	mΩ	14
LC(72hr)	mA	0.300
Specific Energy	Wh/kg	5.68
Specific Power	kW/kg	7.31
Max. Peak Current	Α	62.5
Weight	g	22.00
Volume	mL	17.10

- 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) =  $(\frac{1}{2} *C*V^2/3600)$ /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)

## Characteristics

Operating Temperature Range	-40 ~ +65°C	
Rated Voltage	3.0 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	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	
Lifetime at RT <sup>(1)</sup>	10 years	
Cycle Life(25°C) <sup>(2)</sup>	500,000 cycles	

- (1)  $\Delta C \leq 30\%$  of initial value and  $|ESR| \leq 100\%$  of initial specified value.
- (2) Cycle: between rated voltage and half rated voltage under constant current at 25°C.

## Dimensions Unit:mm

D	22.0
L	45.0
Р	10.0
Фd	1.0

