



Enygy® enyCell Series, Radial Type (Electric Double Layer Capacitors)

Datasheet EC3R025616025S



- Endurance: 3.0V 65°C 1000 hours
- High capacitance and small size
- Low ESR
- Long cycle life
- UL recognized
- RoHS compliant

Specifications

Part Number	EC3R025616025S	
Rated Voltage	V	3.0
Capacitance	F	25
ESR, 1kHz	mΩ	15
ESR, DC	mΩ	27
LC(72hr)	mA	0.070
Specific Energy	Wh/kg	4.22
Specific Power	kW/kg	11.26
Max. Peak Current	A	22.39
Weight	g	7.4
Volume	mL	5.02

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 = $(\frac{1}{2} * C * V) / (1 + ESR * C)$

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 ⁽¹⁾	10 years	
Cycle Life(25°C) ⁽²⁾	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	16.0
L	25.0
P	7.5
Φd	0.8

