

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

Datasheet EC3R015612525S

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

- Long cycle life
- UL recognized
- RoHS compliant





Specifications

Part Number	EC3R015612525S	
Rated Voltage	V	3.0
Capacitance	F	15
ESR, 1kHz	mΩ	20
ESR, DC	mΩ	35
LC(72hr)	mA	0.050
Specific Energy	Wh/kg	4.17
Specific Power	kW/kg	14.29
Max. Peak Current	Α	14.75
Weight	g	4.50
Volume	mL	3.07

- Capacitance and Equivalent Series Resistance (ESR) measured according to IEC62391-1 at +25°C, with current in milliamps (mA) = 10*C
- Leakage Current at 25°C after 72 hour charge and hold
- 3. Specific Energy (Wh/kg) = $(\frac{1}{2} \text{ C*V}^2/3600)$ /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%	
Tomporatura Characteristica	Capacitance change	Within ±5% of initial value at +25°C
Temperature Characteristics	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	
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	12.5
L	25.0
Р	5.0
Фd	0.6

