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

Datasheet EC6R025510020M

- Endurance: 6.0V 65°C 1000 hours •
- Long cycle life
- High capacitance and small size
- UL recognized

Low ESR

RoHS compliant

Specifications

Part Number	EC6R025510020M	
Rated Voltage	V	6.0
Capacitance	F	2.5
ESR, 1kHz	mΩ	70
ESR, DC	mΩ	100
LC(72hr)	mA	0.020
Specific Energy	Wh/kg	2.50
Specific Power	kW/kg	18.00
Max. Peak Current	А	6.00
Weight	g	5.00

- 1. 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 2. hold
- 3. Specific Energy (Wh/kg) = $(\frac{1}{2} C^* V^2/3600)$ /weight
- 4. Specific Power $(kW/kg) = (V^2/4*ESR)/weight$

0.1±W

5. Max Peak Current in Amps (A), 1 second discharge from rated voltage to half rated voltage = (½*C*V)/(1+ESR*C)

Characteristics

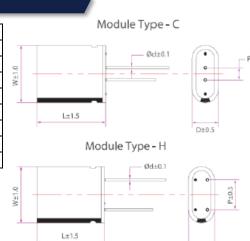
Operating Temperature Range	-40 ~ +65°C		
Rated Voltage	6.0 VDC		
Capacitance Tolerance	-10% ~ +20%		
Temperature Characteristics	Capacitance change	Within ±5% of initial value at +25°C	
	Internal resistance	Within ±50% of initial value at +25°C	
Endurance	Duration	1000 hours	
	Capacitance charge	Within ≤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

L	22.0	
W	21.0	
D	10.5	
	Type-C	5.5
Р	Type-S	15.5
	Туре-Н	10.5
Φd	0.6	
Single	ΦDxL	
Cell Size	10 x 20	



D±0.5

