

**ELECTRICAL DOUBLE LAYER ENERGY STORAGE CAPACITORS****220 EDLC ENYCAP™****Electrical Double Layer Energy Storage Capacitors
Power and Energy Versions****KEY BENEFITS**

- Polarized energy storage capacitor with high capacity and high energy density
- Rated voltage: 2.7 V
- Rapid charge and discharge
- Available in through-hole (radial) version
- RoHS-compliant

APPLICATIONS

- Power backup
- Burst power support
- Storage device for energy harvesting
- Micro UPS power source
- Energy recovery

RESOURCES

- Datasheet: 220 EDLC - <http://www.vishay.com/doc?28421>
- For technical questions contact energystorage@vishay.com
- Material categorization: For definitions of compliance please see <http://www.vishay.com/doc?99912>

**RoHS
COMPLIANT****A WORLD OF
SOLUTIONS™**

Electrical Double Layer Energy Storage Capacitors Power and Energy Versions

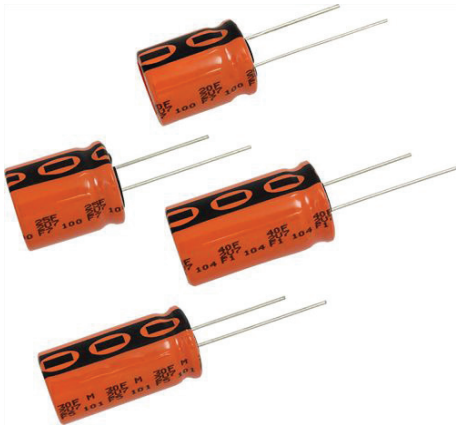


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FEATURES

- Polarized energy storage capacitor with high capacity and energy density
- Energy version with high stability available
- Rated voltage: 2.7 V
- Available in through-hole (radial) version
- Useful life: 1000 h at 85 °C
- Rapid charge and discharge
- Maintenance-free, no service necessary
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

APPLICATIONS

- Power backup
- Burst power support
- Storage device for energy harvesting
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MARKING

The capacitors are marked (where possible) with the following information:

- Rated capacitance (in F)
- Rated voltage (in V)
- Date code, in accordance with IEC 60062
- Code indicating factory of origin
- Logo of manufacturer
- Negative terminal identification
- Series number (220)

PACKAGING

Supplied in ESD trays.

QUICK REFERENCE DATA

DESCRIPTION	VALUE
Nominal case sizes (Ø D x L in mm)	16 x 20; 18 x 20; 16 x 25, 18 x 25; 16 x 31; 18 x 31 , 18 x 35, 18 x 40
Rated capacitance range, C _R	15 F to 60 F
Rated voltage, U _R (65 °C / 85 °C)	2.7 V / 2.3 V
Category temperature range	-40 °C to +85 °C
Endurance test at 85 °C	1000 h
Useful life at 85 °C	1000 h
Useful life at 20 °C	> 10 years
Shelf life at 20 °C	2 years
Cycle life	> 500 000 cycles

SELECTION CHART FOR C_R, U_R, AND RELEVANT NOMINAL CASE SIZES (Ø D x L in mm)

C _R (F)	U _R (V) = 2.7 V
15	16 x 20
20	16 x 20; 16 x 25; 18 x 20
25	16 x 25; 18 x 20; 18 x 25
30	16 x 31; 18 x 25
35	16 x 31, 18 x 31 ⁽¹⁾
40	18 x 31 ⁽¹⁾
45	18 x 35
50	18 x 35
55	18 x 40
60	18 x 40

Note

⁽¹⁾ Preferred case size.

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