

**ELECTRICAL DOUBLE LAYER ENERGY STORAGE CAPACITORS**

225 EDLC-R ENYCAP™

**Ruggedized Electrical Double Layer  
Energy Storage Capacitors****KEY BENEFITS**

- Polarized energy storage capacitor with high capacity and high energy density
- Ruggedized for high humidity operation
- High lifetime up to 2000 h at 85 °C
- 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
- Smart metering
- Fault indicator

**RESOURCES**

- Datasheet: 225 EDLC-R - [www.vishay.com/doc?28449](http://www.vishay.com/doc?28449)
- For technical questions contact [energystorage@vishay.com](mailto:energystorage@vishay.com)
- Material categorization: For definitions of compliance please see <http://www.vishay.com/doc?99912>



# ELECTRICAL DOUBLE LAYER ENERGY STORAGE CAPACITORS

## 225 EDLC-R ENYCAP™

### Ruggedized Electrical Double Layer Energy Storage Capacitors

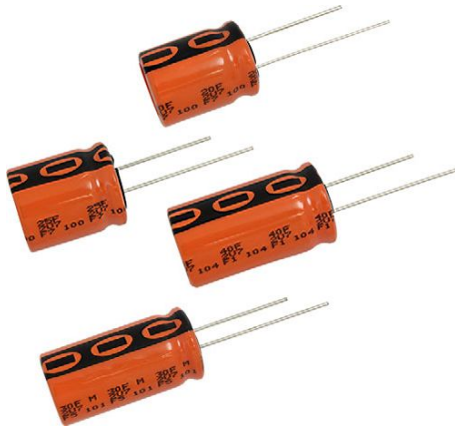


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QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Nominal case sizes (Ø D x L in mm)	16 x 20, 16 x 25, 16 x 31, 18 x 25, 18 x 20, <b>18 x 31</b> , 18 x 35, 18 x 40
Rated capacitance range, C <sub>R</sub>	20 F to 60 F
Rated voltage, U <sub>R</sub> (65 °C / 85 °C)	2.7 V / 2.3 V
Category temperature range	-40 °C to +85 °C
Biased humidity at 85 °C / 85 % RH	1500 h
Useful life at 85 °C	2000 h
Useful life at 20 °C	> 10 years
Shelf life at 20 °C	2 years
Cycle life	> 500 000 cycles

#### FEATURES

- Polarized energy storage capacitor with high capacity and energy density
- Rated voltage: 2.7 V
- Available in through-hole (radial) version
- Useful life: 2000 h at 85 °C
- Ruggedized for high humidity operation
- Rapid charge and discharge
- Maintenance-free, no service necessary
- AEC-Q200 qualified available (on request)
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT

#### APPLICATIONS

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

#### 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 (225)

#### PACKAGING

Supplied in ESD trays.

SELECTION CHART FOR C <sub>R</sub> , U <sub>R</sub> , AND RELEVANT NOMINAL CASE SIZES (Ø D x L in mm)	
C <sub>R</sub> (F)	U <sub>R</sub> (V) = 2.7 V
20	16 x 20
25	16 x 25; 18 x 20
30	18 x 25
35	16 x 31
40	<b>18 x 31<sup>(1)</sup></b>
50	18 x 35
60	18 x 40

**Note**

(1) Preferred case size

Revision 27-Mar-18