



235 EDLC-HVR Series Sample Kit Ruggedized Electrical Double Layer Energy Storage Capacitors



RoHS
COMPLIANT

FEATURES

- Polarized energy storage capacitor with high capacity and energy density
- Rated voltage: 3.0 V
- Available in through-hole (radial) version
- Useful life: up to 2000 h at 85 °C
- Ruggedized for high humidity operation
- Rapid charge and discharge
- Maintenance-free, no service necessary
- AEC-Q200 qualified
- UL 810A recognized
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

LINKS TO ADDITIONAL RESOURCES



ORDER CODE

MAL223599001E3

QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Nominal case sizes (Ø D x L in mm)	10 x 20; 10 x 25; 10 x 30; 12.5 x 20; 12.5 x 25; 12.5 x 30; 12.5 x 40; 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	5 F to 60 F
Rated voltage, U _R (65 °C / 85 °C)	3.0 V / 2.6 V
Category temperature range	-40 °C to +85 °C
Endurance test at 85 °C	Up to 1500 h
Useful life at 85 °C	Up to 2000 h
Useful life at 20 °C	> 10 years
Shelf life at 20 °C	2 years
Cycle life	> 500 000 cycles

APPLICATIONS

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

PACKED SAMPLE KIT VALUES			
CAPACITANCE (F)	VOLTAGE (V)	DIMENSIONS D x L (mm)	PART NUMBER
5	3	10 x 20	MAL223551011E3
8	3	12.5 x 20	MAL223551014E3
10	3	10 x 30	MAL223551013E3
12	3	12.5 x 25	MAL223551015E3
15	3	12.5 x 30	MAL223551016E3
20	3	16 x 20	MAL223551003E3
25	3	16 x 25	MAL223551006E3
30	3	18 x 25	MAL223551007E3
35	3	16 x 31	MAL223551002E3
40	3	18 x 31	MAL223551001E3
50	3	18 x 35	MAL223551008E3
60	3	18 x 40	MAL223551009E3

Note

- For further technical specifications please look into datasheet of series 235 EDLC-HVR: www.vishay.com/doc?28455