



ALUMINUM CAPACITOR

199 PEL-SI



Aluminum Electrolytic Capacitor

High Voltage Snap-In Type

KEY BENEFITS

- Temperature range: - 25 °C to + 105 °C
- Useful life at 105 °C and I_R applied: 3000 hours
- Case sizes: 22 mm x 25 mm to 35 mm x 50 mm
- Capacitance rating: 47 μ F to 2200 μ F (tolerance \pm 20 %)
- Voltage ratings of 160 V, 200 V, 250 V, 400 V, and 450 V

APPLICATIONS

- On-board power supplies
- Power supply modules
- White goods motor control
- Air-conditioning motor control

Datasheet is available on our web site at www.vishay.com
for 199 PEL-SI - <http://www.vishay.com/doc?28363>

Aluminum Capacitors Power Economy Long-Life Snap-In

FEATURES

- Polarized aluminum capacitors, non-solid electrolyte
- Large types, very small dimensions, cylindrical aluminum case, insulated with a blue sleeve
- Useful life: 3000 hours at 105 °C

APPLICATIONS

- Consumer electronics
- Whitegood motor control
- Electronic drives
- smps/ups

MARKING

- The capacitors are marked (where possible) with the following information:
- Rated capacitance (in μF)
 - Tolerance code on rated capacitance, code letter in accordance with IEC 60062 (M for $\pm 20\%$)
 - Rated voltage (in V)
 - Name of manufacturer
 - Date code
 - '-' sign to identify the negative terminal, visible from the top and side of the capacitor
 - Code number (last 8 digits)
 - Maximum operating temperature



RoHS COMPLIANT

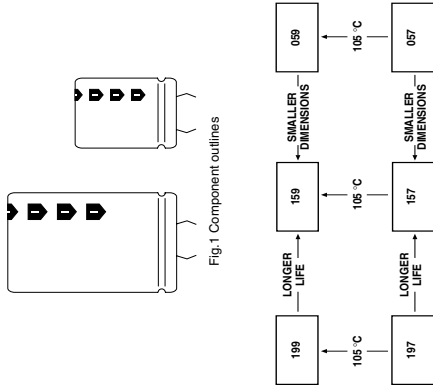


Fig. 1 Component outlines

DESCRIPTION	VALUE
Nominal case size ($\varnothing D \times L$ in mm)	22 x 25 to 35 x 50
Rated capacitance range, C_R	47 to 2200 μF
Tolerance on C_R	$\pm 20\%$
Rated voltage range, U_R	160 V; 200 V; 250 V; 400 V; 450 V
Category temperature range	- 25 to + 105 °C
Endurance test at 105 °C	2000 hours
Useful life at 105 °C	3000 hours
Useful life at 40 °C and 1.6 x I_R applied	300,000 hours
Shelf life at D V, 105 °C	500 hours
Based on sectional specification	IEC 60384-4/EN130300W of JIS C5141

SELECTION CHART FOR C_R , U_R AND RELEVANT NOMINAL CASE SIZES ($\varnothing D \times L$ in mm)		
C_R (μF)	U_R (V)	
160	250	400
47	—	22 x 25
56	—	25 x 30
68	—	25 x 35
—	—	25 x 40
—	—	25 x 45
—	—	25 x 50
82	—	22 x 30
—	—	25 x 25
—	—	25 x 30
—	—	25 x 35
—	—	25 x 40
100	—	25 x 30
—	—	25 x 35
—	—	25 x 40
—	—	25 x 45
—	—	25 x 50
120	—	30 x 25
—	—	—

SELECTION CHART FOR C_R , U_R AND RELEVANT NOMINAL CASE SIZES ($\varnothing D \times L$ in mm)				
C_R (μF)	U_R (V)			
150	250	400	450	—
—	—	22 x 40	25 x 40	—
—	—	25 x 35	25 x 40	—
—	—	30 x 30	35 x 25	—
180	—	25 x 40	—	—
—	—	30 x 30	30 x 35	—
—	—	35 x 25	—	—
220	250	30 x 35	30 x 40	—
—	—	35 x 30	35 x 30	—
270	—	22 x 35	—	—
—	—	25 x 30	—	—
—	—	25 x 50	30 x 45	—
—	—	30 x 40	35 x 35	—
—	—	35 x 30	35 x 40	—
330	250	30 x 45	30 x 50	—
—	—	35 x 35	35 x 40	—
—	—	35 x 40	—	—
390	250	30 x 30	—	—
—	—	25 x 35	—	—
—	—	30 x 30	35 x 45	—
470	250	35 x 50	35 x 50	—
—	—	30 x 30	—	—
—	—	35 x 45	—	—
560	300	35 x 50	—	—
—	—	30 x 30	—	—
—	—	35 x 30	—	—
680	300	30 x 40	—	—
—	—	35 x 35	—	—
—	—	35 x 25	—	—
—	—	30 x 45	—	—
—	—	25 x 50	—	—
—	—	35 x 30	—	—
—	—	35 x 40	—	—
820	300	30 x 45	—	—
—	—	35 x 35	—	—
—	—	30 x 45	—	—
1000	350	35 x 30	—	—
—	—	35 x 40	—	—
—	—	35 x 45	—	—
1200	300	30 x 50	—	—
—	—	35 x 40	—	—
—	—	35 x 50	—	—
1500	350	35 x 45	—	—
—	—	35 x 35	—	—
1800	350	35 x 45	—	—
—	—	35 x 45	—	—
2200	350	35 x 50	—	—

DIMENSIONS in millimeters AND AVAILABLE FORMS

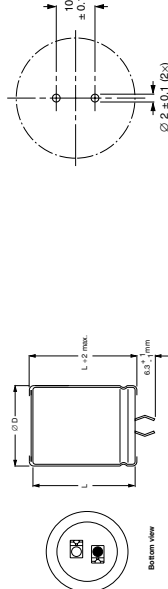


Fig. 2 Mounting hole diagram

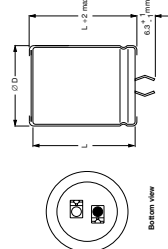


Fig. 2 Two terminal snap-in

The minus terminal can be marked with a black dot or with an impressed sign

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