

Aluminum Electrolytic Capacitors Power Ultra-Miniature Snap-In



KEY BENEFITS

- Higher voltage rating: up to 500 V
- Long useful life: ≥ 5000 hours at +85 °C
- In addition to the standard 2-pin version, a 3-pin keyed polarity version is available

APPLICATIONS

- Power supply (back-up)
- Industrial motor control (power from mains)
- Inverter (power to mains)
- Traction
- Pulsed power
- LED driver
- Pumps (water circulating)

RESOURCES

- Datasheet: 157 PUM-SI - www.vishay.com/doc?28338
- For technical questions contact aluminumcaps2@vishay.com
- Material categorization: For definitions please see www.vishay.com/doc?99912



RoHS
COMPLIANT

A **WORLD OF**
SOLUTIONS

Aluminum Electrolytic Capacitors Power Ultra-Miniature Snap-In

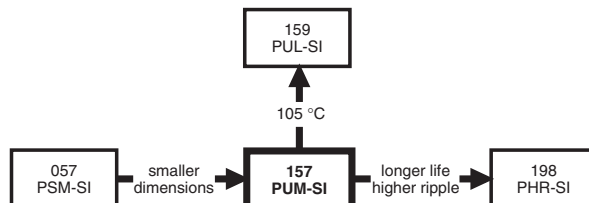


Fig. 1

QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Nominal case sizes (Ø D x L in mm)	22 x 25 to 35 x 60
Rated capacitance range (E6/E12 series), C _R	56 µF to 2200 µF
Tolerance on C _R	± 20 %
Rated voltage range, U _R	200 V, 250 V, 400 V, 450 V 500 V
Category temperature range	-25 °C to +85 °C
Endurance test at 85 °C	3000 h
Load life at 85 °C	3000 h
Useful life at 85 °C	5000 h
Useful life at 40 °C, 1.4 x I _R applied	90 000 h
Shelf life at 0 V, 85 °C	1000 h
Max. RMS value of ripple voltage	12 V n/a
Based on sectional specification	IEC 60384-4 / EN130300
Climatic category IEC 60038	25/085/56

FEATURES

- Up to 500 V
- Useful life: 5000 h at 85 °C
- Polarized aluminum electrolytic capacitors, non-solid electrolyte
- Large types, very small dimensions, cylindrical aluminum case, insulated with a blue sleeve
- Keyed polarity version available
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

- General purpose, industrial, and audio/video systems
- Smoothing and filtering
- Standard and switched mode power supplies
- Energy storage in pulse systems

MARKING

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

- Rated capacitance (in µF)
- Tolerance on rated capacitance, code letter in accordance with IEC 60062 (M for ± 20 %)
- Rated voltage (in V)
- Date code (YYMM or in 2 digits according to IEC 60062)
- Name of manufacturer
- Code for factory of origin
- “-” sign to identify the negative terminal, visible from the top and side of the capacitor
- Code number, last 8 digits 157 xxxxx
- Climatic category in accordance with IEC 60068

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

C _R (µF)	U _R (V)				
	200	250	400	450	500
47	-	-	-	-	22 x 25
56	-	-	-	22 x 25	-
68	-	-	22 x 25	22 x 30	22 x 30
	-	-	-	-	25 x 25
82	-	-	22 x 25	22 x 30	-
	-	-	-	25 x 25	-
100	-	-	22 x 30	22 x 35	22 x 35
	-	-	-	25 x 30	25 x 30
	-	-	-	-	30 x 25

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