



ALUMINUM CAPACITORS

095 PLL-4TSI



Long-Life 4-Terminal Snap-In Aluminum Power Capacitors

KEY BENEFITS

- Up to 450 V available
- Case sizes larger than standard snap-in, 35 x 50 mm up to 45 x 100 mm
- 4-terminal snap-in for stable mounting on PC board
- Very long useful life: 10 000 hours at 85 °C
- Low ESR, high ripple current capability

APPLICATIONS

- Solar systems
- Uninterruptible power supplies (UPS)
- Motor drives
- Wind energy systems

Aluminum Capacitors Power Long Life 4 Terminal Snap-In

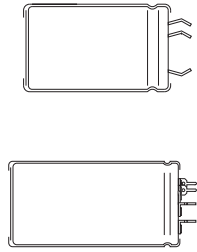


Fig.1 Component outlines



FEATURES

- Polarized aluminum electrolytic capacitors, non-solid electrolyte
- Large types, minimized dimensions, cylindrical aluminum case, insulated with a blue sleeve
- Pressure relief on the side of the aluminum case
- Very long useful life: 10 000 hours at 85 °C
- Temperature range up to 85 °C



RoHS
COMPLIANT

- Pressure relief on the side of the aluminum case
- Very long useful life: 10 000 hours at 85 °C
- Temperature range up to 85 °C

APPLICATIONS

- Telecommunication and industrial systems
- Smoothing and filtering applications
- Switched mode power supplies
- Renewable energy power converters
- Energy storage in pulse systems
- For excellent mounting stability

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)
 - Date code (YYMM)
 - 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
- Climatic category in accordance with IEC 60068

QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Nominal case size (D x L in mm)	35 x 50 to 45 x 100
Rated capacitance range C _R	390 μ F to 2200 μ F
Tolerance on C _R	$\pm 20\%$
Rated voltage range U _R	350 V to 450 V
Category temperature range	-40 °C to + 85 °C
Endurance test at 85 °C	3000 hours
Useful life at 85 °C	10 000 hours
Useful life at 40 °C, 1.4 x I _R applied	400 000 hours
Shelf life at 0 V, 85 °C	1000 hours
Based on sectional specification	IEC 60384-4/EN 30300
Climatic category IEC 60 068	40/085/56

500 V available on request!

SELECTION CHART FOR C			U _R , U _R AND RELEVANT NOMINAL CASE SIZES			(Ø D x L in mm)
C _R (µF)	U _R (V)			420	450	
	350	400	-			
390	-	-	-	-	35 x 50 40 x 40	
470	-	35 x 50 40 x 40	35 x 50 40 x 40	35 x 50 40 x 40	35 x 60 40 x 50 45 x 40	
560	35 x 50	35 x 60 45 x 40	35 x 60	35 x 60	35 x 70 40 x 60 45 x 50	
680	35 x 50 40 x 60 45 x 50	35 x 70 40 x 60 45 x 50	35 x 70	35 x 70	35 x 80 40 x 60 45 x 50	
820	35 x 70 40 x 60	35 x 80 40 x 60	35 x 80	35 x 80	40 x 70 40 x 70 45 x 60	

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For technical questions, contact aluminumcaps2@vishay.com

SELECTION CHART FOR C₈₀, U₈₀ AND RELEVANT NOMINAL CASE SIZES (Ø D x L in mm)

C _R (μF)	U _R (V)		
	350	400	420
1000	35 × 80	35 × 100	35 × 100
	40 × 60	40 × 70	40 × 80
	45 × 50	45 × 60	45 × 60
1500	40 × 80	40 × 100	40 × 100
	45 × 70	45 × 80	45 × 80
	45 × 100	45 × 100	45 × 100
1800	40 × 100	-	-
2200	45 × 100	-	-

DIMENSIONS in millimeters **AND AVAILABLE FORMS**

PRINTED WIRING

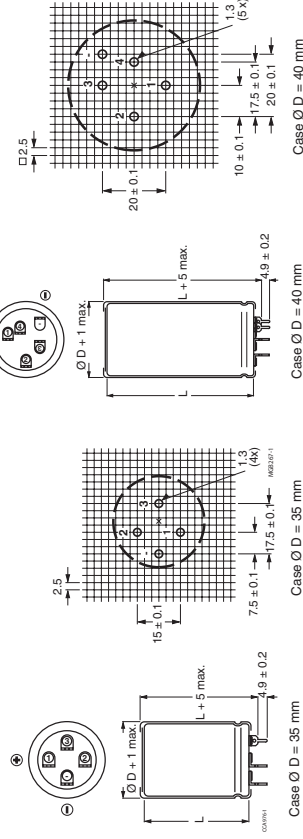


Fig.5 Mounting hole diagram viewed from component side

Fig.3 Mounting hole diagram viewed from component side

Fig.2 Printed wiring
pin version

FOUR TERMINAL SNAP-IN

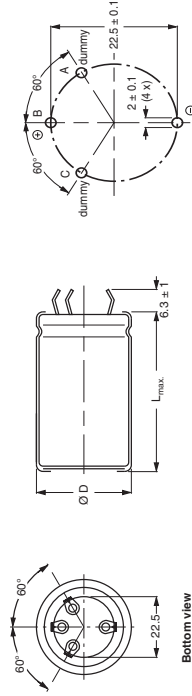


Fig. 6 4-Terminal Snap-in

Fig.7 Mounting hole diagram

Dummy terminals (A and C) must be free from the electrical circuit

Build **Vishay** into your Design