



ALUMINUM ELECTROLYTIC CAPACITORS

299 PHL-4TSI

Aluminum Electrolytic Power Capacitors High Ripple Current, Long Life, 4-Terminal Snap-In



KEY BENEFITS

- Four terminals for stable mounting and keyed polarity
- Large case sizes: 35 mm x 50 mm up to 45 mm x 100
- Allows replacement of bus bars and screw terminals by lower cost PC board and solder process
- Long lifetime: 15 years at 65 °C
- High ripple current capability

APPLICATIONS

- High power motor inverters
- Energy storage in pulse systems
- Uninterruptable power supply (UPS) systems

RESOURCES

- Datasheet: 299 PHL-4TSI - www.vishay.com/ppg?28432
- For technical questions contact aluminumcaps2@vishay.com
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912



RoHS*
COMPLIANT

Pb-free
Available



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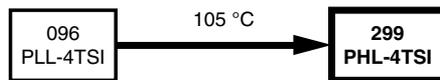


Fig. 1

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	470 μ F to 2200 μ F
Tolerance on C_R	± 20 %
Rated voltage range, U_R	400 V to 450 V
Category temperature range	-40 °C to +105 °C
Endurance test at 105 °C	2000 h
Useful life at 105 °C	5000 h
Shelf life at 0 V, 105 °C	1000 h
Based on sectional specification	IEC 60384-4 / EN 130300
Climatic category IEC 60068	40 / 105 / 56

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: 5000 h at 105 °C
- Temperature range up to 105 °C
- Stable mounting and keyed polarity
- High ripple current capability
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

APPLICATIONS

- Switched mode power supplies
- Renewable energy power converters
- Energy storage in pulse systems

MARKING

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

- Rated capacitance (in μ F)
- Tolerance code on rated capacitance, code letter in accordance with IEC 60062 (M for ± 20 %)
- Rated voltage (in V)
- Date code
- Name of manufacturer
- Code for factory of origin
- “-” sign to identify the negative terminal, visible from the top and side of the capacitor
- (Partial) ordering code
- Climatic category in accordance with IEC 60068

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

C_R (μ F)	U_R (V)	
	400	450
470	-	35 x 50 40 x 40
560	35 x 50	35 x 60 40 x 50
680	40 x 40	35 x 70
820	35 x 60 40 x 50	35 x 80 40 x 60
1000	35 x 70	35 x 100 40 x 80 45 x 60
1200	35 x 80 40 x 70 45 x 60	45 x 70
1500	35 x 100 45 x 70	40 x 100 45 x 80
1800	40 x 100 45 x 80	45 x 100
2200	45 x 100	-

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