



ALUMINUM ELECTROLYTIC CAPACITORS

501 PGM-ST

Aluminum Electrolytic Capacitors Power, General Purpose, Miniaturized Screw Terminal



KEY BENEFITS

- 10 % higher capacitance than 500 PGP-ST in given can size
- 500 V voltage rating
- Useful life of 5000 h at 85 °C
- High ripple current handling capability

APPLICATIONS

- Energy storage in motor drives
- Heating, ventilation, and air conditioning
- UPS, welding, and X-ray equipment
- Microgrid interfaces, solar inverters
- Wind turbines
- Scientific test equipment

RESOURCES

- Datasheet: 501 PGM-ST - www.vishay.com/ppg?28456
- For technical questions contact aluminumcaps2@vishay.com
- Material categorization: for definitions please see www.vishay.com/doc?99912



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ALUMINUM ELECTROLYTIC CAPACITORS

501 PGM-ST

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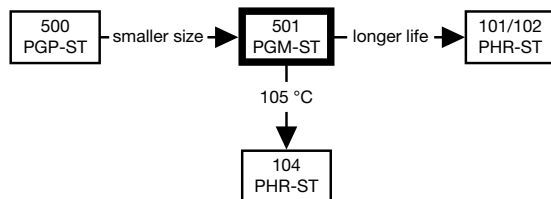


Fig. 1

QUICK REFERENCE DATA		
DESCRIPTION	VALUE	
Nominal case size (Ø D x L in mm)	50 x 80 to 90 x 195	
Rated capacitance range, C _R	1000 µF to 18 000 µF	1000 µF to 12 000 µF
Tolerance on C _R	± 20 %	
Rated voltage range, U _R	400 V to 450 V	500 V
Category temperature range	-40 °C to +85 °C	-25 °C to +85 °C
Endurance test at 85 °C	2000 h	
Useful life at 85 °C	5000 h	
Shelf life at 0 V, 85 °C	1000 h	
Based on sectional specification	IEC 60384-4 / EN 130300	
Climatic category IEC 60068	40 / 085 / 56	25 / 085 / 56

SELECTION CHART FOR C _R , U _R , AND RELEVANT NOMINAL CASE SIZES (Ø D x L in mm)			
C _R (µF)	U _R (V)		
	400	450	500
1000	-	50 x 80	50 x 80
1200	-	50 x 80	50 x 80
1500	50 x 80	-	50 x 105
1800	-	50 x 105	-
2200	50 x 105	65 x 105	65 x 105
2700	-	65 x 105	65 x 105
3300	65 x 105	65 x 105	76 x 105
3900	65 x 105	-	76 x 105
4700	76 x 105	76 x 105	76 x 114
5600	76 x 105	76 x 114	76 x 146
6800	76 x 114	76 x 146	76 x 220
8200	76 x 146	-	76 x 220
10 000	90 x 146	76 x 220	90 x 195
12 000	90 x 146	76 x 220	90 x 195
15 000	76 x 220	90 x 195	-
18 000	90 x 195	-	-

Revision: 28-May-2019

FEATURES

- Useful life: 5000 h at +85 °C
- Efficient design
- Available in case sizes up to Ø 90 mm x 195 mm
- Polarized aluminum electrolytic capacitors, non-solid electrolyte
- Large types, cylindrical aluminum case, insulated with a blue sleeve
- Pressure relief in the sealing disc
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912


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APPLICATIONS

- UPS
- Energy storage in medical or industrial pulse systems
- Solar inverters

MARKING

The capacitors are marked 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
- Name of manufacturer
- Code for factory of origin
- (Relevant part of) Ordering code