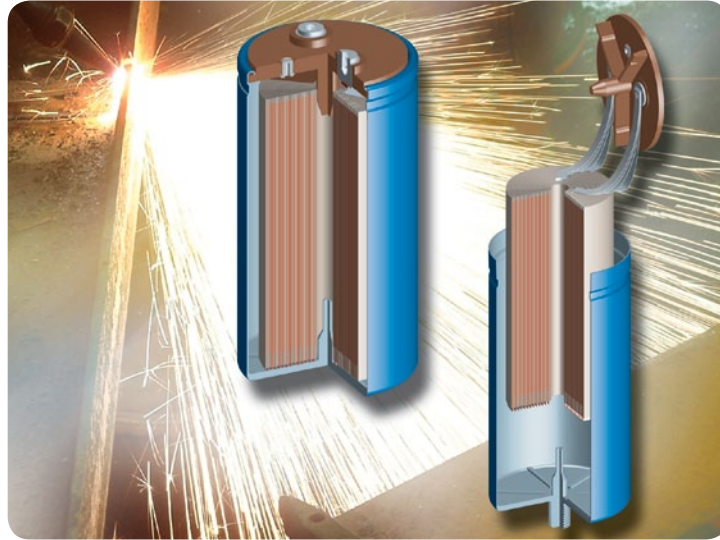


## 101/102 PHR-ST Power High Ripple Current Screw Terminals



### KEY BENEFITS

- Polarized aluminum electrolytic capacitors, non-solid electrolyte
- Large types, cylindrical aluminum case, insulated with a blue sleeve
- Pressure relief in the sealing
- Long useful life: > 10 kh
- High reliability
- High ripple current
- Available with high capacitance/voltage combinations (1 F, 25 V to 10 mF, 450 V; both in 90 mm x 220 mm)
- Usable up to 85 °C
- Available with 8 mm and 13 mm terminals

### APPLICATIONS

- Buffering and filtering
- Motor drives, inverters, UPS and traction systems
- Pulsed power supplies

### RESOURCES

- Datasheet: 101/102 PHR-ST - <http://www.vishay.com/doc?28371>
- For technical questions contact [aluminumcaps2@vishay.com](mailto:aluminumcaps2@vishay.com)
- Material categorization: For definitions of compliance please see <http://www.vishay.com/doc?99912>

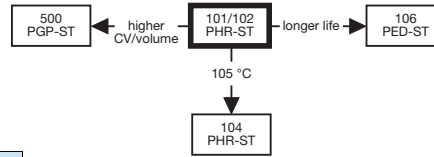


RoHS  
COMPLIANT

One of the World's Largest Manufacturers of  
Discrete Semiconductors and Passive Components



# 101/102 PHR-ST Power High Ripple Current Screw Terminals



QUICK REFERENCE DATA		
DESCRIPTION	VALUE	
	101	102
Nominal case size (∅ D x L in mm)	35 x 60 to 90 x 220	
Rated capacitance range (E6 series), C <sub>R</sub>	220 µF to 1 F	
Tolerance on C <sub>R</sub>	± 20 %	
Rated voltage range, U <sub>R</sub>	25 V to 100 V	200 V to 450 V
Category temperature range	- 40 °C to + 85 °C	
Endurance test at 85 °C	2000 h	
Useful life at 85 °C	10 000 h (D ≤ 50 mm) 15 000 h (D ≥ 65 mm)	10 000 h
Useful life at 40 °C, 1.4 x I <sub>R</sub> applied	400 000 h (D ≤ 50 mm) 600 000 h (D ≥ 65 mm)	400 000 h
Shelf life at 0 V, 85 °C	500 h	
Based on sectional specification	IEC 60384-4/EN130300	
Climatic category IEC 60068	40/085/056	

### 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 (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
- Climatic category in accordance with IEC 60068

SELECTION CHART FOR C <sub>R</sub> , U <sub>R</sub> , AND RELEVANT NOMINAL CASE SIZES (∅ D x L in mm)										
C <sub>R</sub> (µF)	U <sub>R</sub> (V)									
	25	40	63	100	200	250	350	385	400	450
220	-	-	-	-	-	-	-	35 x 60	35 x 60	35 x 60
330	-	-	-	-	-	-	-	-	35 x 60	-
470	-	-	-	-	-	35 x 60	-	35 x 80	-	-
680	-	-	-	-	35 x 60	35 x 80	-	-	35 x 105	-
1000	-	-	-	-	35 x 80	35 x 80	-	50 x 80	50 x 80	50 x 80
1500	-	-	-	-	35 x 105	35 x 105	-	-	-	50 x 105
2200	-	-	-	35 x 60	50 x 80	50 x 80	50 x 105	50 x 105	50 x 105	65 x 105
3300	-	-	-	35 x 60	50 x 80	50 x 105	-	-	65 x 105	76 x 105
4700	-	-	35 x 60	35 x 80	-	65 x 105	76 x 105	76 x 105	76 x 105	76 x 146
5600	-	-	-	35 x 105	65 x 105	76 x 105	76 x 146	76 x 146	76 x 146	-
6800	-	-	35 x 60	35 x 105	65 x 105	76 x 105	-	-	76 x 146	76 x 220
10 000	-	35 x 60	35 x 80	50 x 80	76 x 105	76 x 105	76 x 146	90 x 146	-	90 x 220
15 000	35 x 60	35 x 60	35 x 105	50 x 105	76 x 146	76 x 146	-	-	-	-
22 000	35 x 60	35 x 80	50 x 80	65 x 105	76 x 220	76 x 220	-	-	-	-
33 000	35 x 80	50 x 80	65 x 105	76 x 105	-	-	-	-	-	-
47 000	50 x 80	50 x 105	76 x 105	76 x 146	-	-	-	-	-	-
68 000	50 x 80	50 x 105	76 x 105	76 x 146	-	-	-	-	-	-
100 000	50 x 105	65 x 105	-	76 x 220	-	-	-	-	-	-
150 000	65 x 105	76 x 105	76 x 146	90 x 146	-	-	-	-	-	-
220 000	76 x 105	76 x 146	90 x 146	-	-	-	-	-	-	-
330 000	76 x 146	76 x 220	-	-	-	-	-	-	-	-
470 000	-	90 x 146	90 x 220	-	-	-	-	-	-	-
680 000	76 x 220	-	-	-	-	-	-	-	-	-
1 000 000	90 x 220	-	-	-	-	-	-	-	-	-

Revision 09-Mar-12