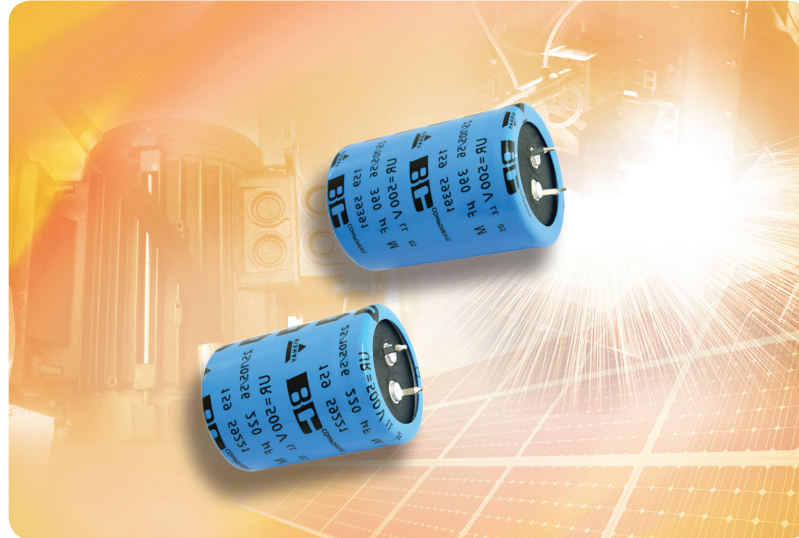




# ALUMINUM ELECTROLYTIC CAPACITORS

## 159 PUL-SI Series

### Aluminum Electrolytic Capacitors, Power, Ultra Long Life, Snap-In



#### KEY BENEFITS

- New feature! 500 V products with a useful life of 5000 h at +105 °C
- High ripple current capability, robust design
- High peak ripple current capability at low frequencies

#### APPLICATIONS

- Industrial inverters
- Air conditioning
- Professional power supplies
- Solar inverters

#### RESOURCES

- Datasheet: 159 PUL-SI - [www.vishay.com/doc?28341](http://www.vishay.com/doc?28341)
- For technical questions contact [aluminumcaps2@vishay.com](mailto:aluminumcaps2@vishay.com)
- Material categorization: For definitions please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



RoHS  
COMPLIANT

A WORLD OF  
SOLUTIONS

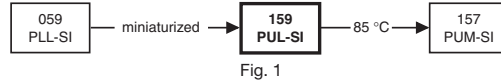


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QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Nominal case size (Ø D x L in mm)	22 x 25 to 35 x 60
Rated capacitance range (E6 / E12 series), C <sub>R</sub>	56 µF to 1800 µF
Tolerance on C <sub>R</sub>	± 20 %
Rated voltage range, U <sub>R</sub>	200 V to 450 V   500 V
Category temperature range	-25 °C to +105 °C
Endurance test at 105 °C	2000 h
Load life at 105 °C	2000 h
Useful life at 105 °C	5000 h
Useful life at 40 °C and 1.6 x I <sub>R</sub> applied	500 000 h
Shelf life at 0 V, 105 °C	1000 h
Max. RMS value of ripple voltage	12 V   n/a
Based on sectional specification	IEC 60384-4 / EN130300
Climatic category IEC 60068	25 / 105 / 56



#### 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 ± 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
- Code number, last 8 digits 159 xxxxx
- Climatic category in accordance with IEC 60068



RoHS COMPLIANT

SELECTION CHART FOR C <sub>R</sub> , U <sub>R</sub> , AND RELEVANT NOMINAL CASE SIZES (Ø D x L in mm)					
C <sub>R</sub> (µF)	U <sub>R</sub> (V)				
	200	250	400	450	500
56	-	-	-	22 x 25	22 x 30
68	-	-	22 x 25	22 x 30	22 x 35
	-	-	-	25 x 25	25 x 30
82	-	-	22 x 30	22 x 35	22 x 35
	-	-	25 x 25	-	25 x 30
100	-	-	22 x 35	22 x 40	22 x 40
	-	-	25 x 30	25 x 30	25 x 35
	-	-	-	30 x 25	-
120	-	-	22 x 35	-	25 x 40
	-	-	25 x 30	25 x 35	30 x 30
	-	-	30 x 25	-	-
150	-	-	22 x 40	25 x 40	25 x 45
	-	-	25 x 35	30 x 30	30 x 35
	-	-	30 x 30	35 x 25	-
180	-	-	25 x 40	25 x 45	25 x 50
	-	-	30 x 30	30 x 35	30 x 40
	-	-	35 x 25	-	35 x 30
220	-	22 x 30	25 x 45	30 x 40	30 x 45
	-	25 x 25	30 x 35	35 x 30	35 x 35
	-	-	35 x 30	-	-
270	-	22 x 35	25 x 50	30 x 45	30 x 50
	-	25 x 30	30 x 40	35 x 35	35 x 40
	-	30 x 25	35 x 30	-	-
330	22 x 30	22 x 40	30 x 45	30 x 50	35 x 45
	-	25 x 30	35 x 35	35 x 40	-
	-	30 x 25	-	-	-
390	22 x 35	25 x 35	30 x 50	35 x 45	35 x 55
	25 x 30	30 x 30	35 x 40	-	-
470	22 x 40	25 x 40	35 x 45	35 x 50	35 x 60
	30 x 25	30 x 30	-	35 x 40	-
560	-	35 x 25	-	-	-
	-	25 x 45	-	35 x 60	-
	25 x 35	30 x 35	-	-	-
680	30 x 30	35 x 35	-	-	-
	35 x 25	-	-	-	-
820	25 x 50	30 x 45	-	-	-
	30 x 35	35 x 35	-	-	-
	35 x 30	35 x 40	-	-	-
1000	30 x 45	35 x 40	-	-	-
	35 x 35	35 x 45	-	-	-
1200	30 x 50	35 x 45	-	-	-
	35 x 35	35 x 50	-	-	-
1500	35 x 45	-	-	-	-
1800	35 x 50	-	-	-	-

Revision 14-Oct-16