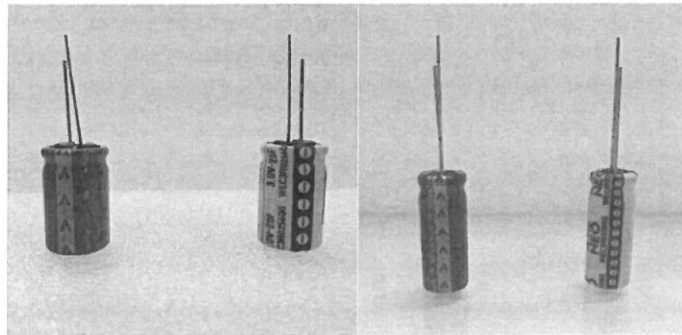


## VINATech are rolling out a proven solution to combat effects of Extreme environments

Radial EDLCs are facing challenges when installed in equipment that regularly exceeds the recommended +65c temperature, especially when combined with high humidity conditions.

A growing number of applications from around the globe are realising this “Wetting Phenomenon” when products in the field are returned, especially areas like the Middle East , West Africa, Central America and parts of Asia. Applications include Automotive and Tracking, UPS, HVA, SSD, Building controls and numerous AMR solutions.

VINATech’s development engineers have re-invented the EDLC technology in the 2.7v and their popular 3v series to overcome this Industry wide Wetting Phenomenon and have now exceeded over a year of constant trials with 30 second cycling at 65c 90rh with no effects of Wetting. The NEO series is ready to combat affects of extreme environments.



The new series is being promoted will cover 1 Farad to 100F in Radial options

- ✓ Pin for Pin compatible with standard series
- ✓ Temperature range -40~65c (extended to 85c when de-rated)
- ✓ Low ESR
- ✓ 2.7v and 3v options
- ✓ 500,000 cycle life
- ✓ First real Anti Wetting solution

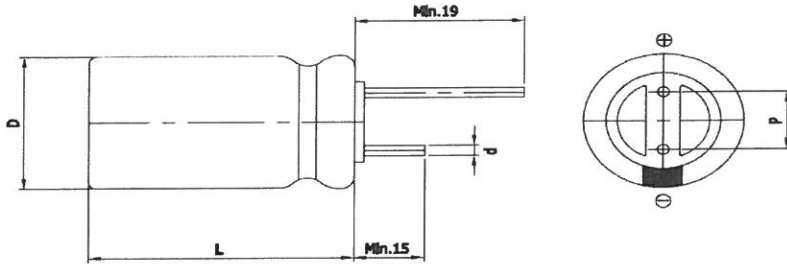
To learn more about using EDLCs in extreme environments, call the sales office

## FEATURES

### EDLC (Electric Double Layer Capacitor)

- High Power Density (Low ESR)
- Over 500,000 cycle life (semi-permanent)
- Higher energy density compared with 2.7V caps
- RoHS compliant
- Long-term reliability improved at high temperature and humidity(65°C 90%RH)

## Drawing



D (Φ)	13.0 +1.0 Max
L (mm)	25.0 ±1.5
d (Φ)	0.6 ±0.1
P (mm)	5.0 ±0.5

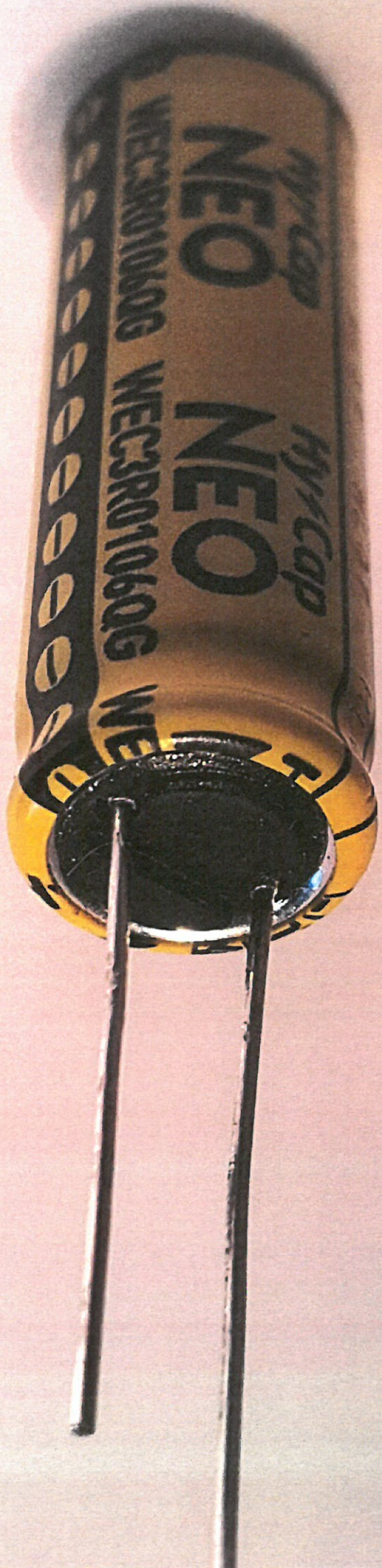
## SPECIFICATION

ITEM		CHARACTERISTICS
Product series		EDLC
Rated Voltage (V <sub>R</sub> )		3.0V
Operating Temperature		-40 ~ +65°C
Capacitance Tolerance		-10 ~ +30%
High Temperature Load Life		After 1,000 hours at V <sub>R</sub> loaded under +65°C, capacitors meet the following criteria.
		Capacitance Change ≤ 30% of initial value
		ESR ≤ 2 times of specified value
Cycle Life Characteristics	Cycle	Over 500,000
	ΔC	≤ 30% of initial value
	ESR	≤ 2 times of specified value
	Method	Cycle of Charge/discharge from V <sub>R</sub> to 1/2V <sub>R</sub>
Shelf Life		2 Years No Electrical Charge, Temperature below 70°C (ΔC : ≤ 10% of initial value / ΔESR : ≤ 50% of specified value)

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (μA, 72hr)	Size (mm)
			AC(1kHz)	DC			D x L
WEC 3R0 156 QG	3.0	15	37	55	12.0	0.045	13 x 25

\* Max. Current : 1 sec. discharge to 1/2V<sub>R</sub>





NEO

NEO

HY-CAP

HY-CAP

WEC3R01060G WEC3R01060G WEC3R01060G

WEC3R01060G





NEO NEO

3.0V-25F

WEC3R02560G

3.0V-25F

WEC3R02560G