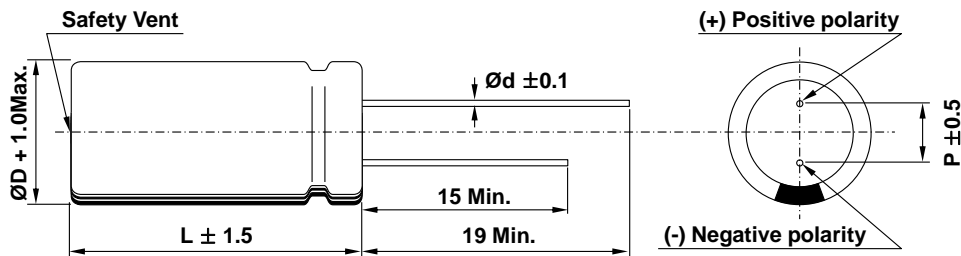


## FEATURES

- High power density (Low ESR)
- Over 500,000 cycle life (semi-permanent)
- Higher energy density compared with 2.7V caps
- RoHS compliant



## Drawing



D	8	10, 13	16, 18
d	0.6		0.8
P	3.5	5.0	7.5

## SPECIFICATION

ITEM	CHARACTERISTICS	
Product series	EDLC	
Rated Voltage ( $V_R$ )	3.0V	
Operating Temperature	-40 ~ +65°C	
Capacitance Tolerance	-10 ~ +30%	
High Temperature Load Life	After 1,000 hours at $V_R$ loaded under +65°C, capacitors meet the following criteria.	
	Capacitance Change	≤ 30% of initial value
	ESR	≤ 2 times of specified value
	85°C Higher Temperature	Max. 2.4V
Cycle	Over 500,000	
Cycle Life	$\Delta C$	≤ 30% of initial value
Characteristics	ESR	≤ 2 times of specified value
	Method	Cycle of Charge/discharge from $V_R$ to $1/2V_R$
Shelf Life	2 Years	
	No Electrical Charge, Temperature below 70°C	
	(ΔC : ≤ 10% of initial value / ΔESR : ≤ 50% of specified value)	

# 3.0V SERIES - Lead terminal



Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)	Size (mm)	Weight (g)	Volume (ml)
			AC(1kHz)	DC			D × L		
VEC 3R0 105 QG	3.0	1	145	220	1.0	0.003	08 × 13	1.1	0.7
VEC 3R0 155 QG		1.5	95	140	1.5	0.005	08 × 20	1.4	1.0
VEC 3R0 335 QG		3.3	70	105	3.5	0.010	08 × 20	1.5	1.0
VEC 3R0 505 QD		5	40	70	5.5	0.015	08 × 25	1.8	1.3
VEC 3R0 505 QG		5	65	100	5.0	0.015	10 × 20	2.1	1.6
VEC 3R0 705 QG		7	65	110	5.5	0.021	10 × 20	2.2	1.6
VEC 3R0 106 QA		10	35	60	9.0	0.030	10 × 25	2.6	2.0
VEC 3R0 106 QG		10	25	40	10.0	0.030	10 × 30	3.2	2.4
VEC 3R0 156 QG		15	30	45	13.0	0.045	13 × 25	4.5	3.3
VEC 3R0 256 QG		25	20	30	21.0	0.075	16 × 25	7.2	5.0
VEC 3R0 506 QG		50	12.5	19	38.0	0.150	18 × 40	12.5	10.2
VEC 3R0 606 QG		60	12.5	19	42.0	0.180	18 × 40	13.5	10.2

\* **Max. Current** : 1 sec. discharge to  $1/2V_R$

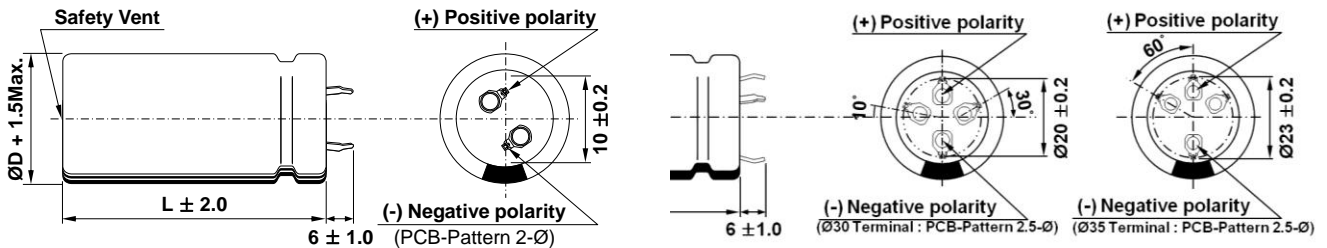
\* **When do module more than 2 series, please fully discharge over 1 hour first, then assemble right after within 1 hour.**

## FEATURES

- High power density (Low ESR)
- Over 500,000 cycle life (semi-permanent)
- Higher energy density compared with 2.7V caps
- RoHS compliant



## Drawing



## SPECIFICATION

ITEM	CHARACTERISTICS	
Product series	EDLC	
Rated Voltage ( $V_R$ )	3.0V	
Operating Temperature	-40 ~ +65 °C	
Capacitance Tolerance	-10 ~ +30%	
High Temperature Load Life	After 1,000 hours at $V_R$ loaded under +65 °C, capacitors meet the following criteria.	
	Capacitance Change	$\leq 30\%$ of initial value
	ESR	$\leq 2$ times of specified value
	85 °C Higher Temperature	Max. 2.4V
Cycle Life	Over 500,000	
Characteristics	$\Delta C$	$\leq 30\%$ of initial value
	ESR	$\leq 2$ times of specified value
	Method	Cycle of Charge/discharge from $V_R$ to $1/2V_R$
Shelf Life	2 Years No Electrical Charge, Temperature below 70 °C ( $\Delta C$ : $\leq 10\%$ of initial value / $\Delta ESR$ : $\leq 50\%$ of specified value)	

# 3.0V SERIES – Snap-in terminal

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)	Size (mm)	Weight (g)	Volume (mℓ)
			AC(1kHz)	DC			D × L		
VEC 3R0 107 QG	3.0	100	6.0	10.0	75.0	0.300	22×45	20.0	17.1
VEC 3R0 367 QG		360	3.0	4.5	200.0	1.080	35×62	70.0	59.6
VEC 3R0 407 QG		400	3.0	4.5	210.0	1.200	35×72	80.0	69.2
VEC 3R0 507 QG		500	3.0	4.5	230.0	1.500	35×82	96.0	78.9

\* **Max. Current** : 1 sec. discharge to  $1/2V_R$

\* **When do module more than 2 series, please fully discharge over 1 hour first, then assemble right after within 1 hour.**