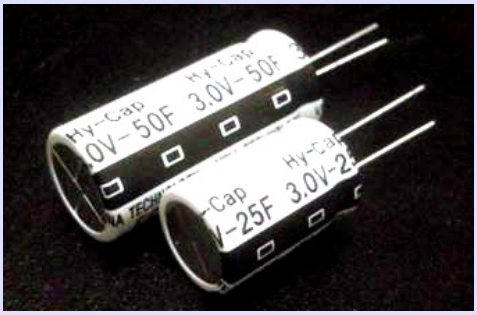
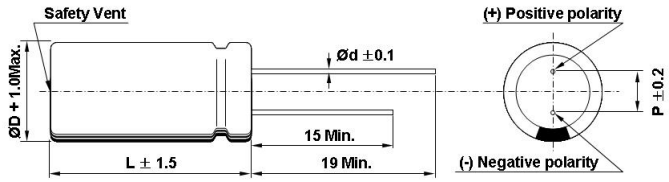
3.0V SERIES - Lead terminal



FEATURES

- Rated 3.0V
- High power density and low ESR
- Energy density increase by 23% compared with 2.7V caps
- Higher reliability at the same condition (longer life)

Drawing



D	8	10	16, 18
d	0.6		0.8
P	4	5.5	8

SPECIFICATION

ITEM		CHARACTERISTICS	
Rated Voltage (V_R)		3.0 V	
Operating Temperature		-40 ~ +65℃	
Capacitance Tolerance		-10 ~ +30%	
High Temperature Load Life		After 1,000 hours at V_R loaded under +65℃, capacitors meet the following criteria.	
		Capacitance Change	≤ 30% of initial value
		ESR Change	≤ 2 times of specified value
Temperature Characteristics	Measure	at -40, +25, +65℃	
	△C	≤ 5% of initial value	
	ESR	≤ 2 times of specified value	
Cycle Life Characteristics	Cycle	Over 500,000	
	△C	≤ 30% of initial value	
	ESR	≤ 2 times of specified value	
	Condition	Cycle of Charge/discharge from V_R to 1/2V_R	
Shelf Life		1,000 hours, No voltage, 70℃	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)	Size (mm)	Weight (g)	Volume (mℓ)	Energy Density (Wh/L)
			AC(1㎑)	DC			D × L			
VEC 3R0 305 QG	3.0	3	50	65	3.7	0.010	08×20	1.4	1.0	3.8
VEC 3R0 505 QG		5	35	45	6.1	0.014	10×20	2.1	1.6	3.9
VEC 3R0 106 QG		10	20	26	11.9	0.036	10×30	3.0	2.4	5.2
VEC 3R0 256 QG		25	15	20	25.0	0.082	16×25	6.8	5.0	6.3
VEC 3R0 506 QG		50	10	15	42.8	0.126	18×40	11.3	10.2	6.1

* 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.**

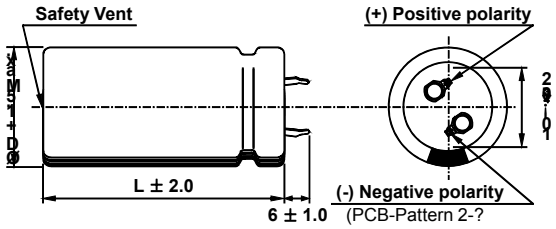
Taiwan Agent : Component Plus Inc. Office: Tel : 886-2-2898-4050 Email:ray.jeng@seed.net.tw

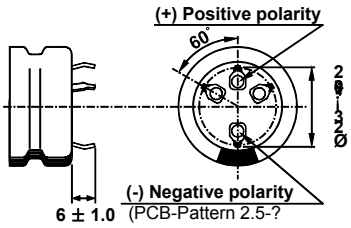
3.0V SERIES - Snap-in terminal

FEATURES

- Rated 3.0V
- High power density and low ESR
- Energy density increase by 23% compared with 2.7V caps
- Higher reliability at the same condition (longer life)

Drawing





SPECIFICATION

ITEM		CHARACTERISTICS	
Rated Voltage (V_R)		3.0 V	
Operating Temperature		-40 ~ +65℃	
Capacitance Tolerance		-10 ~ +30%	
High Temperature Load Life		After 1,000 hours at V_R loaded under +65℃, capacitors meet the following criteria.	
		Capacitance Change	≤ 30% of initial value
		ESR Change	≤ 2 times of specified value
Temperature Characteristics	Measure	at -40, +25, +65℃	
	△C	≤ 5% of initial value	
	ESR	≤ 2 times of specified value	
Cycle Life Characteristics	Cycle	Over 500,000	
	△C	≤ 30% of initial value	
	ESR	≤ 2 times of specified value	
	Method	Cycle of Charge/discharge from V_R to 1/2V_R	
Shelf Life		1,000 hours, No voltage, 70℃	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)	Size (mm)	Weight (g)	Volume (mℓ)	Energy Density (Wh/L)
			AC(1㎑)	DC			D × L			
VEC 3R0 107 QG	3.0	100	6.0	8.0	83.3	0.600	22×45	19.7	17.1	7.3
VEC 3R0 357 QG		350	3.0	3.5	235.9	1.680	35×60	54.1	57.7	7.6
VEC 3R0 407 QG		400	3.0	3.5	250.0	1.680	35×70	61.0	67.0	7.5
VEC 3R0 507 QG		500	3.0	3.3	283.0	1.955	35×70	65.0	67.0	9.3
VEC 3R0 607 QG		600	3.0	3.3	302.0	2.300	35×80	80.8	76.9	9.7

* 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.**

Taiwan Agent : Component Plus Inc. Office: Tel : 886-2-2898-4050 Email:ray.jeng@seed.net.tw