

2.7V SERIES - Lead terminal

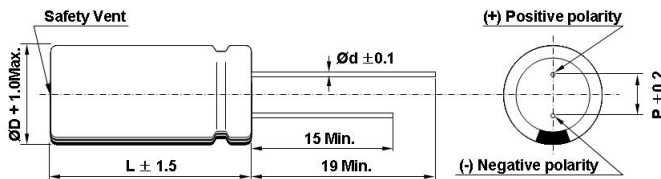


FEATURES

EDLC (Electric Double Layer Capacitor)

- High Power Density (Low ESR)
- Over 500,000 cycle life (semi-permanent)
- Short-term Peak Power assist applications
- RoHS compliant

Drawing



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SPECIFICATION

ITEM	CHARACTERISTICS
Product series	EDLC
Rated Voltage (V_R)	2.7 V
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 Change \leq 2 times of specified value
85 °C Higher Temperature	Max. working voltage at 2.1V
Temperature Characteristics	Measure at -40, +25, +65 °C
	ΔC \leq 5% of initial value
	ESR \leq 2 times of specified value
Cycle Life Characteristics	Cycle Over 500,000
	ΔC \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	After 1,000 hours storage at +65 °C without load, capacitors meet the criteria of high temp. load life above.

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (m Ω)		Max. Current (A)	Leakage Current (mA, 72hr)	Size (mm) D x L	Weight (g)	Volume (ml)	Energy Density (Wh/L)
			AC(1kHz)	DC						
VEC 2R7 155 QG	2.7	1.5	50	65	1.8	0.003	08x20	1.4	1.0	1.5
VEC 2R7 305 QG		3	50	65	3.3	0.008	08x20	1.4	1.0	3.0
VEC 2R7 405 QG		4	30	40	4.6	0.009	10x25	2.5	2.0	2.0
VEC 2R7 505 QA		5	35	45	5.5	0.012	08x25	1.7	1.3	3.9
VEC 2R7 505 QG		5	35	45	5.5	0.012	10x20	2.1	1.6	3.2
VEC 2R7 705 QG		7	30	40	7.3	0.020	10x20	2.2	1.6	4.5
VEC 2R7 106 QG		10	20	26	10.7	0.030	10x30	3.0	2.4	4.3
VEC 2R7 156 QG		15	25	33	13.5	0.053	13x25	4.5	3.1	4.9
VEC 2R7 256 QG		25	15	20	22.5	0.068	16x25	6.8	5.0	5.0
VEC 2R7 506 QG		50	10	15	38.5	0.105	18x40	11.3	10.2	5.0

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

2.7V SERIES - Lug terminal

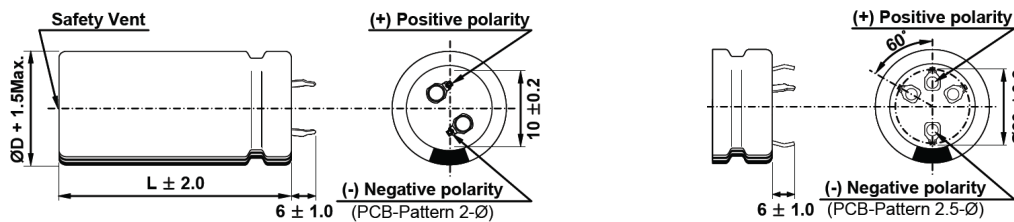


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	Capacitance Change	≤ 30% of initial value
	ESR Change	≤ 2 times of specified value
85 °C Higher Temperature	Max. working voltage at 2.1V	
Temperature Characteristics	Measure	at -40, +25, +65 °C
	ΔC	≤ 5% of initial value
	ESR	≤ 2 times of specified 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_R to $1/2V_R$
Shelf Life	After 1,000 hours storage at +65 °C without load, capacitors meet the criteria of high temp. load life above.	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)	Size (mm) D × L	Weight (g)	Volume (ml)	Energy Density (Wh/L)
			AC(1kHz)	DC						
VEC 2R7 107 QG	2.7	100	6.0	8.0	75.0	0.5	22×45	19.7	17.1	5.9
VEC 2R7 227 QG		220	4.5	5.8	130.4	1.0	25×70	37.7	34.3	6.5
VEC 2R7 357 QG		350	3.0	3.5	212.3	1.4	35×60	54.1	57.7	6.1

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