

2.5V SERIES - Lead terminal

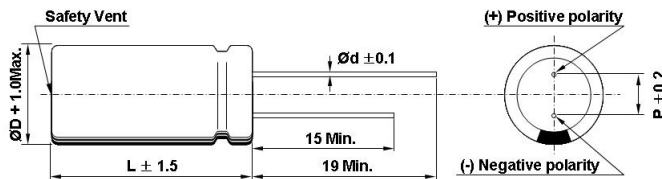


FEATURES

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)	2.5 V
Operating Temperature	-25 ~ +70 °C
Capacitance Tolerance	-10 ~ +30%
High Temperature Load Life	After 1,000 hours at V_R loaded under +70 °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 -25, +25, +70 °C
	ΔC \leq 30% 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 +70 °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 2R5 155 QG	2.5	1.5	120	180	1.4	0.003	08×20	1.5	1.0	1.3
VEC 2R5 305 QG		3	140	210	2.3	0.008	08×20	1.7	1.0	2.6
VEC 2R5 405 QG		4	75	110	3.4	0.009	10×25	2.7	2.0	1.7
VEC 2R5 505 QA		5	120	180	3.2	0.012	08×25	2.1	1.3	3.5
VEC 2R5 505 QG		5	110	165	3.4	0.012	10×20	2.2	1.6	2.8
VEC 2R5 705 QG		7	80	120	4.7	0.020	10×20	2.5	1.6	3.8
VEC 2R5 106 QD		10	65	95	6.4	0.027	10×25	3.1	2.0	4.4
VEC 2R5 106 QG		10	65	95	6.4	0.027	10×30	3.2	2.4	3.7
VEC 2R5 156 QG		15	60	90	7.9	0.035	13×25	4.5	3.1	4.2
VEC 2R5 256 QG		25	35	55	13.1	0.060	16×25	7.6	5.0	4.3
VEC 2R5 606 QG		60	20	30	26.7	0.120	18×40	13.7	10.2	5.1

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

2.5V SERIES - Lug terminal

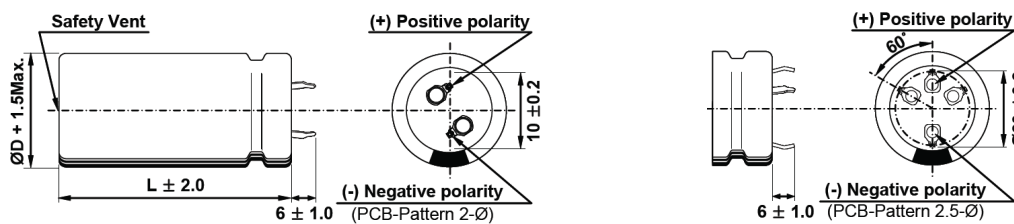


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	ESR	≤ 2 times of specified value
Cycle Life Characteristics	Cycle	Over 500,000
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	ESR	≤ 2 times of specified value
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Part Number	Rated Voltage (V)	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 2R5 127 QG	2.5	120	18	25	37.5	0.24	22×45	22.1	17.1	6.1
VEC 2R5 227 QG		220	14	18	55.4	0.40	25×60	37.9	29.4	6.5
VEC 2R5 357 QG		350	6	10	97.2	0.90	35×60	70.6	57.7	5.3

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