

2.3V SERIES - Lead terminal

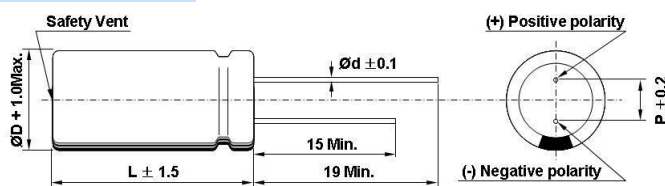


FEATURES

P-EDLC (Hybrid Capacitor)

- High Energy Density (2 times of EDLC)
- Over 25,000 cycle life
- Low current & long-term backup applications
- RoHS compliant

Drawing



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

SPECIFICATION

ITEM		CHARACTERISTICS
Product series		P-EDLC
Rated Voltage (V _R)		2.3 V
Operating Temperature		-25 ~ +60 °C
Capacitance Tolerance		-10 ~ +30%
High Temperature Load Life		After 1,000 hours at V _R loaded under +60 °C, capacitors meet the following criteria.
		Capacitance Change ≤ 30% of initial value
		ESR Change ≤ 2 times of specified value
Temperature Characteristics	Measure	at -25, +25, +60 °C
	ΔC	≤ 50% of initial value
	ESR	≤ 4 times of specified value
Cycle Life Characteristics	Cycle	Over 25,000
	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 +60 °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						
VHC 2R3 106 QG	2.3	10	220	400	0.2	0.014	10×20	2.5	1.6	4.7
VHC 2R3 226 QG		22	120	170	0.4	0.038	10×30	3.6	2.4	6.9
VHC 2R3 506 QG		50	60	100	0.9	0.090	16×25	8.5	5.0	7.3
VHC 2R3 127 QG		120	45	80	2.0	0.240	18×40	16.0	10.2	8.7

* Max. Current : 60 sec. discharge to 1/2V_R

2.3V SERIES - Lug terminal

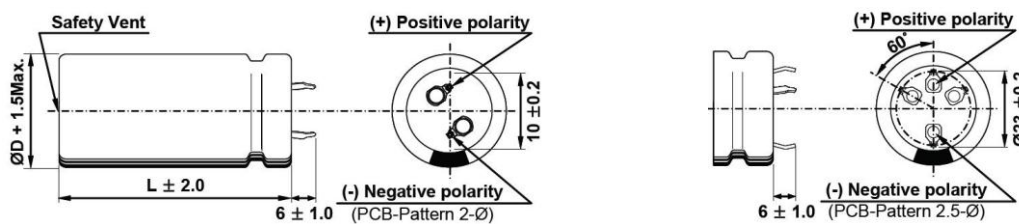


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Shelf Life		After 1,000 hours storage at +60 °C without load, capacitors meet the criteria of high temp. load life above.	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR ($m\Omega$)		Max. Current (A)	Leakage Current (mA, 72hr)	Size (mm) D × L	Weight (g)	Volume (ml)	Energy Density (Wh/L)
			AC(1kHz)	DC						
VHC 2R3 227 QG	2.3	220	30	50	3.5	0.64	22×45	24.7	17.1	9.5
VHC 2R3 407 QG		400	20	25	6.5	2.12	30×45	48.5	31.8	9.2
VHC 2R3 607 QG		600	15	20	9.5	3.80	30×60	65.0	42.4	10.4
VHC 2R3 807 QG		800	10	15	12.7	5.00	35×70	94.0	67.0	8.7

* Max. Current : 60 sec. discharge to $1/2V_R$