

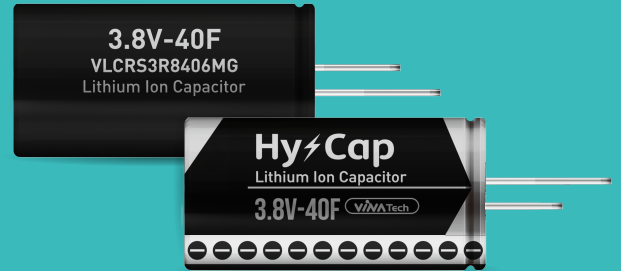
VINA Tech HyCap

LITHIUM ION CAPACITOR

PART NUMBER SYSTEM

VLC RS 3R8 406 MG

- VLC** VINA Lithium ion capacitor (series)
- RS** Low resistance type (Characteristics)
- 3R8** 3.8V (Maximum available voltage) *R=Decimal point
- 406** 40F ($40 \times 10^6 \mu\text{F}$) Capacitance
- M** -15 ~ +15% Capacitance Tolerance
- G** Standard Design

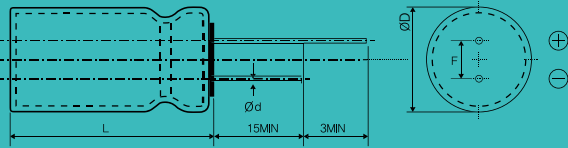


Reliability data

Items	Specifications	Test Conditions
1. Operating temperature range	-30 ~ + 85	—
2. Maximum available voltage	3.8	Within the Operating Temperature Range (3.5V when over 70~85°C)
3. Minimum available voltage	2.2	Within the Operating Temperature Range (2.5V when over 70~85°C)
4. Soldering	Capacitance : Within initial spec. DCR : Within initial spec. Appearance : No noticeable abnormality	Material : Sn-3Ag-0.5Cu Soldering iron temperature : 390±5°C Duration : 3sec The soldering iron of the above conditions is applied twice to the lead wire (+pole, -pole) 1mm away from the cell main body.
5. Floating charge characteristics-1		Apply 3.8V to capacitor for 1000 hours at 70°C and measure the floating charge characteristics after returning to normal temperature and humidity.
6. Floating charge characteristics-2	Capacitance : Over 80% of initial spec.	Apply 3.5V to capacitor for 1000 hours at 85°C and measure the floating charge characteristics after returning to normal temperature and humidity.
7. Heat cycle characteristics	Internal resistance : Within 1.5 times of initial spec. Appearance : No noticeable abnormality.	Leave the capacitor in below condition, and measure the characteristics after returning to normal temperature and humidity. Temperature : 85±2°C, -40±2°C Duration : 30min Cycle Numbers : 100cycles
8. Floating Charge Characteristics in high temperature and high humidity		Apply 3.8V 90%Rh to capacitor for 500 hours at 60°C and measure the floating charge characteristics after returning to normal temperature and humidity.
9. Shock resistance	No exterior abnormality observed.	According to JIS C 60068-2-27 Half-sine wave A=294
10. Vibration resistance	Initial spec. values retained.	Apply a sine wave vibration of 1.5mm amplitude and frequency 10 ~55Hz, for 2hours per each direction (X,Y and Z), total 6 hours.

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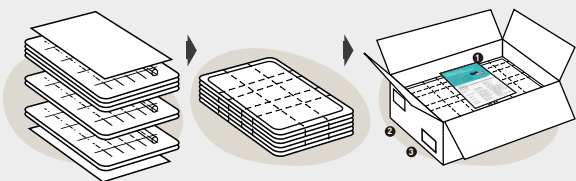


Part number	Dimension (mm)			
	ØD(±0.5)	L(±2)	Ød(±0.05)	F(±0.5)
VLCRS3R8206MG	Ø10.0	30	Ø0.6	5.0
VLCRS3R8406MG	Ø12.5	35	Ø0.8	5.0
VLCRS3R8107MG	Ø18.0	40	Ø0.8	7.5
VLCRS3R8277MG	Ø25.0	40	Ø1.0	12.5

Specifications

Part Number	Operating temp. range [°C]	Maximum available voltage [V]	Minimum available voltage [V]	Initial capacitance [F]	Initial DCR [mΩ]	Temperature characteristics			
						-30°C		+70°C/+85°C	
						Capacitance [F]	DCR [mΩ]	Capacitance [F]	DCR [mΩ]
VLCRS3R8206MG	-30 ~ +70 (Over +70 ~ +85)	3.8 (3.5)	2.2 (2.5)	20 ± 15%	Under 250	10	4000	Within initial spec. *Charging voltage is 3.5V when above 70°C	
VLCRS3R8406MG				40 ± 15%	Under 125	20	2000		
VLCRS3R8107MG				100 ± 15%	Under 60	51	1000		
VLCRS3R8277MG				270 ± 15%	Under 60	115	1000		

Packing configuration



- ① Handling notice instructions
- ② Customer-specific label
- ③ Production label

Part number	Tray	Package	Out box	Size(mm)		
				W	L	H
VLCRS3R8206MG	20	100	400	330	450	250
VLCRS3R8406MG	20	100	400	330	450	250
VLCRS3R8107MG	20	100	400	350	530	250
VLCRS3R8277MG	20	100	400	350	600	330

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