

**CYLINDER TYPE LITHIUM ION CAPACITOR LIC1235R 3R8406TYPE**

**TAIYO YUDEN**

**FEATURES**

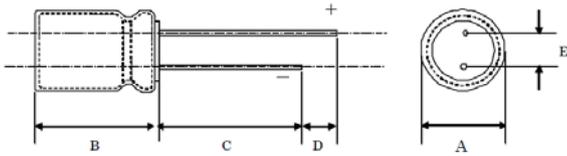
- Lithium Ion Capacitor (LIC) is one of the Hybrid Capacitors to which the reaction of EDLC and that of lithium-ion battery are adopted.
- Lithium Ion Capacitor applies the reaction of lithium-ion battery with anode, therefore it has extremely large capacitance. (about twice as large as conventional EDLC)
- The technique of doping lithium-ions to the anode previously (pre-doping) makes a cell voltage of 3.8V attainable.
- In spite of a high output voltage, damages to the electrodes can be repressed because of low electrode's potential due to pre-doping technique. Therefore LIC shows excellent performance of cycle life.
- Lithium Ion Capacitor is environmentally friendly power source, which does not contain any heavy metals such as Cd, Hg, and Pb (Rohs compliant)

**APPLICATIONS**

- Storage power source combined with solar cell, fuel cell, generator, and so on.
- Main power source for small devices (toys, measuring equipments, machine tools and so on),
- Load charge levelling (life lengthening of main power source such as dry battery, Lithium primary battery)



**EXTERNAL DIMENSIONS**



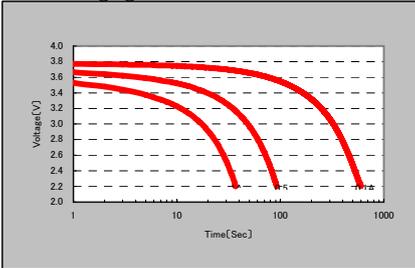
Part Number	A	B	C	D	E	LeadWire Diameter
LIC1235R 3R8406	φ 12.5±0.5	35±2	15Min	3Min	5.0±0.5	φ 0.8

**SPECIFICATIONS**

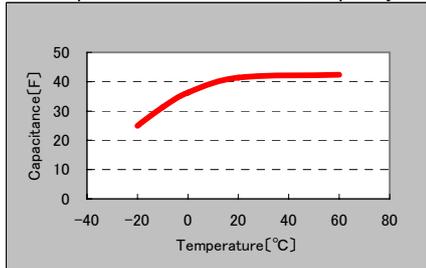
Part Number		LIC1235R 3R8406
1. Operating Temperature Range		-25~+60°C
2. Max Usable Voltage (V)		3.8
3. Initial Capacitance (F)		40±20%
4. Initial Internal Resistance (mΩ)		Under 150
5. Temperature Characteristics	Highest temperature (60°C)	Capacitance: Internal Resistance: Within initial spec.
	Lowest temperature (-25°C)	Capacitance: Over 60% of initial spec. Internal Resistance: Within 10 times of initial spec.

**ELECTRICAL CHARACTERISTICS**

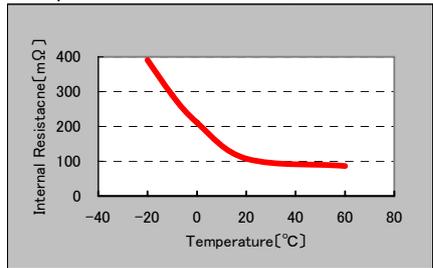
Discharging Characteristics



Temperature Characteristics (Capacity)



Temperature Characteristics (Internal Resistance)



**Solder Heat Resistance**

Part No.	Reflow Soldering	Solder Iron			Flow Soldering		
		Temperature	Time (sec)	Number of Times	Dip Temperature	Time (sec)	Number of Times
LIC1235R 3R8406	not available	390	3	2	not available		