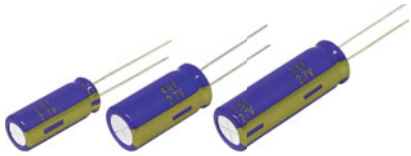
Radial Lead Type

Series : **HL**
Small size

NEW



Features

- Guaranteed 70 °C 2.7 V.DC 2000 h
  Guaranteed 85 °C 2.5 V.DC 1000 h
- Low resistance : 30 mΩ max. (1 kHz)*1
- Low temperature : –40 °C guaranteed
- RoHS compliant

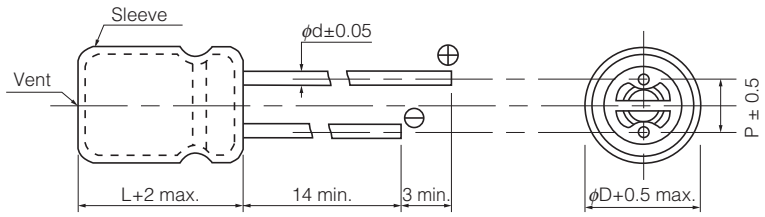
Recommended Applications

- Backup power supply of E-meter, storage (SSD)
- Driver assist of motor, actuator
- Backup for power supply of drive recorder, emergency brake, door lock releasing device

Specifications

Category temp. range	–40 °C to +70 °C (+85 °C)		
Maximum operating voltage	2.7 V.DC (2.5 V.DC)		
Nominal cap. range	2.5 F	4.0 F	7.5 F
Characteristics at low temprature	Capacitance change	±30 % of initial measured value at +20 °C (at –40 °C)	
	Internal resistance	≦ 4 times of initial specified value. (at –40 °C)	
Endurance 1	After 2000 hours application of 2.7 V.DC at +70 °C		
	Capacitance change	Within ±40 % of the initial value	
	Internal resistance	≦ 4 times of initial specified value.	
Endurance 2	After 1000 hours application of 2.5 V.DC at +85 °C		
	Capacitance change	Within ±40 % of the initial value	
	Internal resistance	≦ 4 times of initial specified value.	
Shelf life	After 1000 hours storage at +85 °C 1000 h without load (voltage)		
	Capacitance change	Within ±40 % of the initial value	
	Internal resistance	≦ 4 times of initial specified value.	

Dimensions (not to scale)



Unit : mm

Capacitance (F)	ϕD	L	ϕd	P
2.5	8.0	20.0	0.6	3.5
4.0	10.0	20.0	0.6	5.0
7.5	10.0	30.0	0.6	5.0

Characteristics list

Category temp. range (°C)	Maximum operating voltage (V.DC)	Capacitance (F)	Capacitance tolerance (F)	Internal resistance (Initial specified value) (Ω) at 1 kHz	Recommended *2 discharge current	Parts number	Mass (Reference value) (g)	Min. Packaging Q'ty (pcs)
–40 to +70 (+85)	2.7 (2.5)	2.5	2.0 to 3.0	≦ 0.07	≦ 2.5 A	EECHL0E255	1.5	200
		4.0	3.2 to 4.8	≦ 0.05	≦ 3.5 A	EECHL0E405	2.3	200
		7.5	6.0 to 9.0	≦ 0.03	≦ 6.0 A	EECHL0E755	3.4	200

*1 ϕ10×L30
*2 The recommended discharge current is a reference value. Please design your equipment (circuit) in consideration of IR drop.

Do not use reflow soldering. Please refer to the page of “Application guidelines”.
Remark1: Install the space of 2 mm or more in the upper part of the product so as not to disturb the movement of the pressure valve.

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