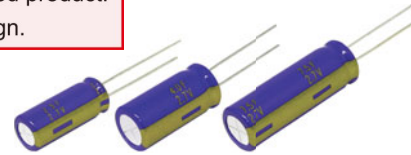


Radial Lead Type

Series : **HL**
Small size

! This series is not a recommended product.
 Not recommended for new design.



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 temperature	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	
Endurance 2	After 1000 hours application of 2.5 V.DC at +85 °C		
	Capacitance change	Within ±40 % of the initial 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.

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.

Should a safety concern arise regarding this product, please be sure to contact us immediately.

Guidelines and precautions regarding the technical information and use of our products described in this online catalog.

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- The switchover date for compliance with the RoHS Directive/REACH Regulations varies depending on the part number or series of our products.
- When you use the inventory of our products for which it is unclear whether those products are compliant with the RoHS Directive/REACH Regulation, please select "Sales Inquiry" in the website inquiry form and contact us.

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