imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Type EDLR, Long Life Electric Double Layer Ultracapacitor



Type EDLR electric double layer supercapacitors offer high capacitance values in a thru hole stacked coin type package. Primarily designed for integrated circuit voltage backup, the capacitors can also be used to deliver the initial power from batteries.

Highlights

- Long life
- High discharge current
- 85 °C Operating temperature

Specifications

Operating Temperature Range	−25 °C to +85 °C
Rated Voltage Range	3.6 Vdc to 5.5 Vdc
Capacitance Range	0.1 F to 1.0 F

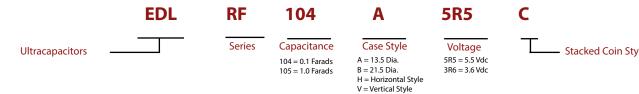
Туре	RF		RD	RG
Capacitance (F)	0.10	0.68	0.22	1.0
Voltage (Vdc)	5.5 3.6			
Capacitance Tolerance (%)		-20 to +8	30	
Max. Initial Internal Resistance (ohms at 1kHz)	75	20	50	20
Life, Moisture and Temperature Characteristics	After the following procedures have been performed, measure the capacitance and internal resistance at $+20 ^{\circ}$ C.			
Life Test:	Apply the max. operating voltage for 2000 h at +85 °C			
Capacitance Change Internal Resistance				
Shelf Life:	Subject the capacitor	to 2000 hours wi	ithout voltage at	: +85 ℃.
Capacitance Change Internal Resistance				
Moisture Resistance:	Subject the capacitor voltage.	to 500 hours at +	-55 °C at 90 to 9	5% RH without
Capacitance Change Internal Resistance				
Soldering Heat Resistance:	Immerse the capacitor leads to within 2 mm of the capacitor body in solder that is at a temperature of 260 °C for 10 seconds.			
Capacitance Change Internal Resistance				
Temperature Cycling	Stabilize the capacito sequence, and then n that temperature.			
	1. +20 °C 225 °C 3. +20 °C 4. +85 °C 5. +20 °C			
Capacitance Change (at -25 °C) Internal resistance (at -25 °C) Capacitance Change (at +85 °C) Internal resistance (at +85 °C) Capacitance Change (Step 5 at +20 °C) Internal resistance (Step 5 at +20 °C)	 ≤ 5 times the initial measured value at +20 °C ±30% of the initial measured value at +20 °C ≤ 4 times the initial measured value at +20 °C ±10% of the initial measured value at +20 °C 			
RoHS Compliant without Exemptions				

Type EDLR, Long Life Electric Double Layer Ultracapacitor Ratings

Catalog Part Number	Capacitance (F)	Voltage (Vdc)	Max. Resistance @ 1 kHz (Ω)	Case Type	Case Dia. (mm)	Case Height (mm)	Lead Spacing	Max. Discharge Current (ma)	Weight (g)	Pkg Qty (pcs)
EDLRF104A5R5C	0.10	5.5	75	Stacked	13.5	9.5	5	3	3.3	200
EDLRF684B5R5C	0.68	- 5.5	20	Coin	21.5			20	4.1	100*
	•			·			<u>.</u>			
EDLRD224H3R6C	0.22		3.6 50	Stacked Coin	10.5	6.0	10	1	1.0	200
EDLRD224V3R6C	0.22	3.0				11.5	5			
				^	~					
EDLRG105H3R6C	1.0	3.6	3.6 20	Stacked Coin	19.0	6.5	20	20	4.1	100*
EDLRG105V3R6C	1.0					21.0	5			

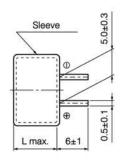
Note: Pkg is bulk except * items are in trays.

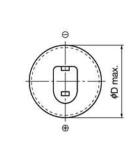
Part Numbering System

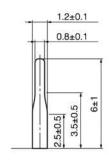


EDLRF Outline Drawing

Stacked Coin





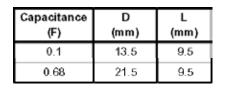


¥

5.0 mm

-0



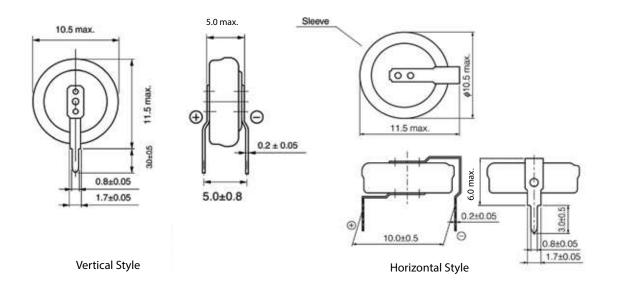




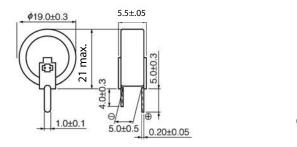
Board Hole Pattern

Type EDLR, Long Life Electric Double Layer Ultracapacitor

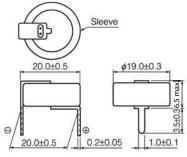
EDLRD Outline Drawing



EDLRG Outline Drawing



Vertical Style



Horizontal Style

Recommended Soldering Procedures			
Hand Soldering	Use a 30W iron with a max. temperature of 350 °C for 4 seconds.		
Wave Soldering	Pre-heat circuit board to a surface temp of 110 °C for a max. of 60 seconds, with a max. component temperature of 100 °C. Min. printed circuit board thickness of 0.8 mm. Recommended solder bath temperature of 240 °C with a max. dipping time of 5 seconds.		

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