Type EDLR, Long Life Electric Double Layer Ultracapacitor



Type EDLR electric double layer supercapacitors o er 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

Speci cations

Operating Tem	perature Range	−25 °C to +85 °C	Co
Rated Voltage	Range	3.6 Vdc to 5.5 Vdc	
Capacitance R	ange	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 +80						
Max. Initial Internal Resistance (or	nms at 1kHz)	75	20	50	20			
Life, Moisture and Temperature Ch	naracteristics	After the following procedures have been performed, measure the capacitance and internal resistance at +20 °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	thout voltag	e at +85 °C.				
	Capacitance Change Internal Resistance	±30% of the initial me 2 times the initial sp		20 °C				
Moisture Resistance:	. 0	Subject the capacitor voltage.	to 500 hours at +	55 °C at 90 t	o 95% RH with	nout		
	Capacitance Change Internal Resistance	±10% of the initial me meets the initial speci		+20 °C				
Soldering Heat Resistance:	-0)	Immerse the capacito solder that is at a tem				y in		
	Capacitance Change Internal Resistance	±10% of the initial me meets the initial speci		+20 °C				
		0. 1 111 11 11						

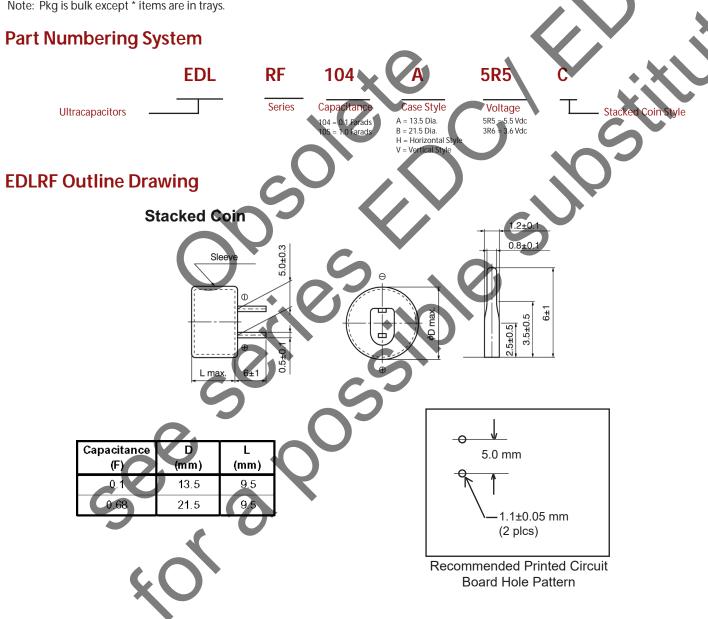
Temperature Cycling	Stabilize the capacitor at each of the following temperatures for 1 hour in sequence, and then measure the capacitance and internal resistance at that temperature.					
5,0,	1. +20 °C 225 °C 3. +20 °C 4. +85 °C 5. +20 °C					
Capacitance Change (at -25 °C) Internal resistance (at -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)	±30% of the initial measured value 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 meets the initial speci ed value					
RoHS Compliant						

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Ratings

Catalog Part Number	Capacitance (F)	Voltage (Vdc)	Max. Resistance @ 1 kHz ()	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		20	Coin	21.5			20	4.1	100*
EDLRD224H3R6C	0.22	3.6	50	Stacked Coin	10.5	6.0	10	1	1.0	200
EDLRD224V3R6C						11.5	5			
EDLRG105H3R6C	1.0	1.0 3.6 20	Stacked	10.0	6.5	20	- 20	4.1	100*	
EDLRG105V3R6C	1.0		3.0 20	Coin	19.0	21.0	5	20	4.1	100

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



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EDLRD Outline Drawing



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