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 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

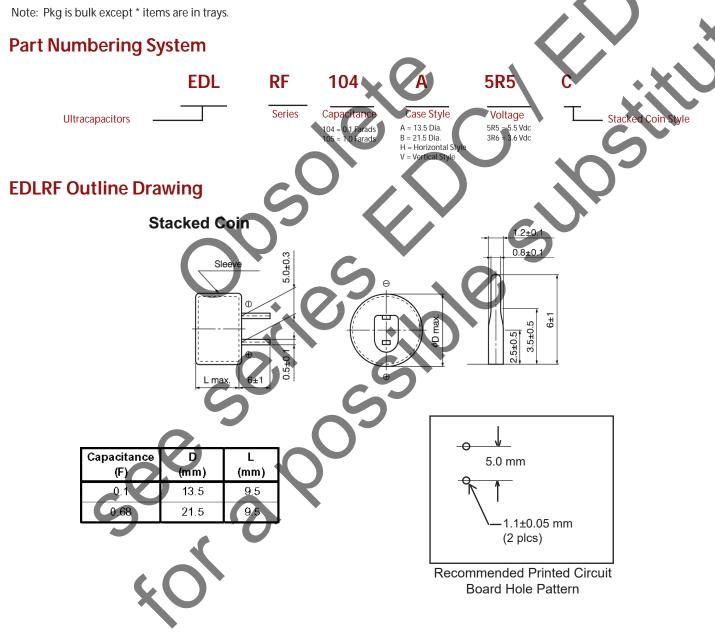
Туре	RF RD RG
Capacitance (F)	0.10 0.68 0.22 1.0
Voltage (Vdc)	5.5 3.6
Capacitance Tolerance (%)	-20 to +80
Max. Initial Internal Resistance (ohms at 1kHz)	75 20 50 20
Life, Moisture and Temperature Characteristics	After the following procedures have been performed, measure the capacitance and internal resistance at +20 °C.
Life Test:	Apply the max. operating voltage for 2000 h at +85 °C
Capacitance Change Internal Resistance	±30% of the initial measured value at +20 °C 2 times the initial speci ed value
Shelf Life:	Subject the capacitor to 2000 hours without voltage at +85 °C.
	±30% of the initial measured value at ±20 °C 2 times the initial speci ed value
	Subject the capacitor to 500 hours at +55 °C at 90 to 95% RH without voltage.
	±10% of the initial measured value at +20 °C
	meets the initial specified value
	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.
	±10% of the initial measured value at +20 °C
Internal Resistance	meets the initial speci ed value
Temperature Cycling	Stabilize the capacitor at each of the following temperatures for 1 hour in

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.						
500	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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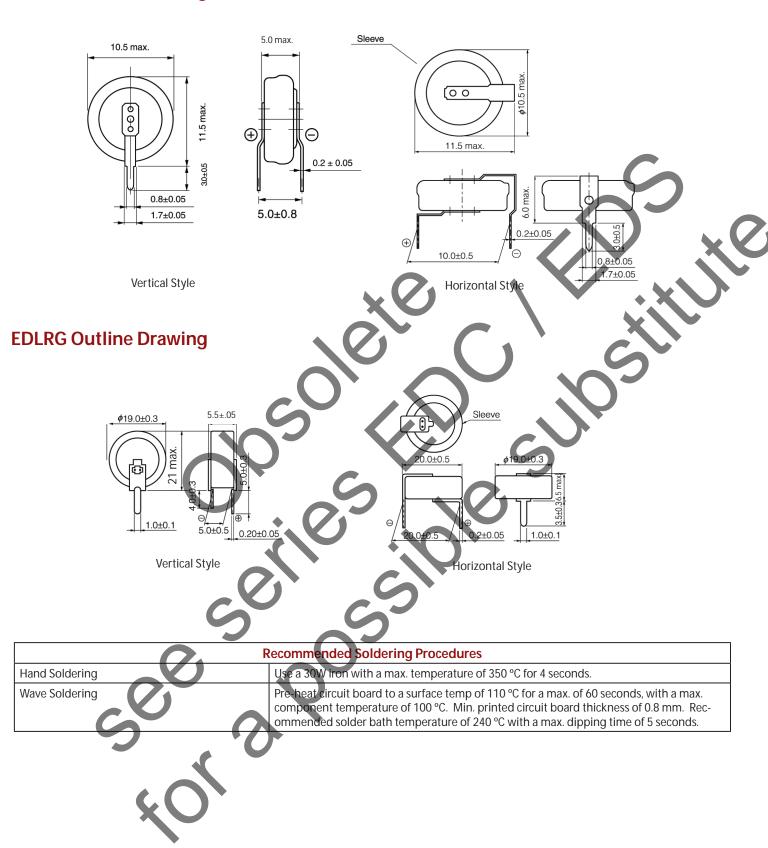
Ratings

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	0.5	5	3	3.3	200
EDLRF684B5R5C	0.68	3.5	20	Coin	21.5	9.5	5	20	4.1	100*
							,			
EDLRD224H3R6C	0.22	27	50	Stacked Coin	10.5	6.0	10	1	1.0	200
EDLRD224V3R6C	0.22	3.6				11.5	5			
					•		,			
EDLRG105H3R6C	1.0	3.6	20	Stacked Coin	19.0	6.5	20	20	4.1	100*
EDLRG105V3R6C	1.0	ა.0				21.0	5			



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EDLRD Outline Drawing



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