

SROS Series

Radial EDLC Module 引线式EDLC 模组

Typical applications 典型应用

- Intelligent instruments: electronic, water, gas and heat meters
- Communication terminals: RTU/DTU, DTU, FTU, fault-current indicators
- Consumer products: toys, robots, smart-home and medical devices
- Auto electronics: recorders, door/audio controls, diagnosis systems, wireless charging
- Energy storage: server backup, motor drives, brake/charging piles, security, fire protection



Branding illustration / 品牌外观示意

Electrical characteristics 电气特性

Parameter / 项目	Specification / 规格
Rated voltage / 额定电压	5.5 V
Operating temperature / 工作温度	-40 to +85 °C
Surge voltage / 浪涌电压	5.7 V
Capacitance range / 容量范围	0.33-5 F
Capacitance tolerance at 25 °C / 容量偏差	-10% to +30%

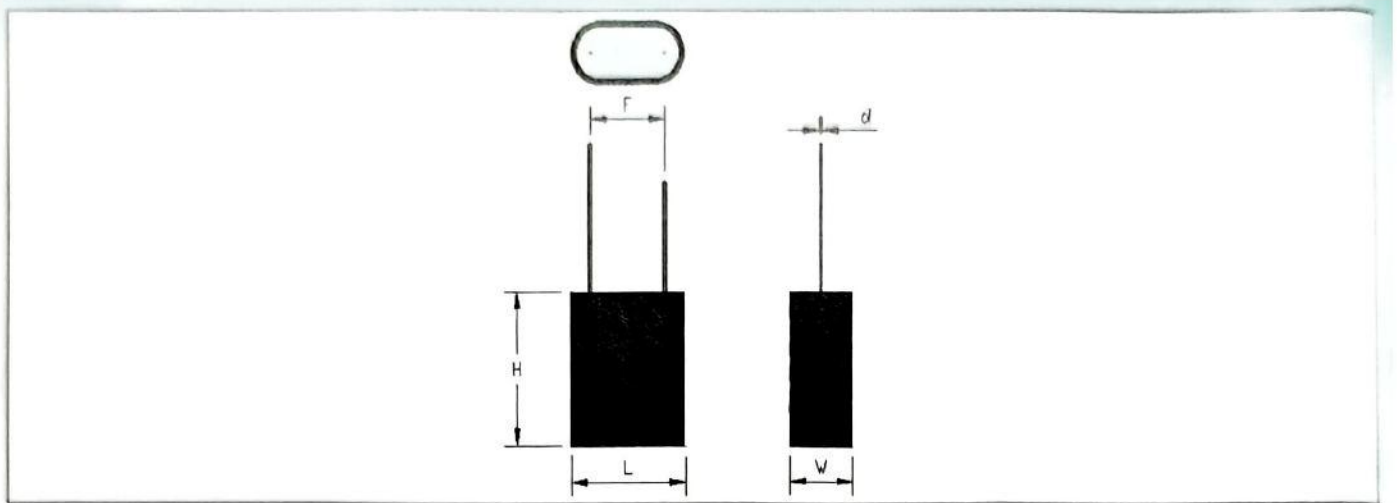
Reliability characteristics 可靠性特性

Test / 项目	Condition / 条件	Requirements / 要求
Temperature characteristics 温度特性	-40 to +85 °C -40 至 +85 °C	Capacitance change: within 30% of initial value at 25 °C ESR _{AC} : "4 × initial specified value 容量变化: 30% 以内; 内阻: ≤4 倍
High-temperature load 高温负荷	Rated voltage, 85 °C, 1,000 h (source EN) 5.0 V, 85 °C, 1,000 小时 (原中文)	Capacitance change: within 30% of initial value ESR _{AC} : "4 × initial specified value 容量变化: 30% 以内; 内阻: ≤4 倍
High-temperature storage 高温存储	85 °C, 1,000 h 85 °C, 1,000 小时	Capacitance change: within 30% of initial value ESR _{AC} : "4 × initial specified value 容量变化: 30% 以内; 内阻: ≤4 倍
Cycle life 循环寿命	500,000 cycles, 25 °C V _R to ½V _R 500,000 次充放电循环, 25 °C	Capacitance change: within 30% of initial value ESR _{AC} : "4 × initial specified value 容量变化: 30% 以内; 内阻: ≤4 倍

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Dimensions 外形尺寸



Dimensions in mm. Tolerances are shown in the drawing.

Ratings and part numbers 额定值与料号

U _R (Surge Voltage) Code 额定电压 (浪涌电压) 代码	Rated Capacitance 额定容量 25℃	Impedance 内阻		Leakage Current 漏电流 (72hrs)	Size 尺寸 (L x W x H)	Pin spacing 引脚间距 (F)	Wire diameter 引线直径 (d)	P/N 产品代码
		ESR _{DC} 直流内阻	ESR _{AC} 交流内阻 (1KHz)					
(V)	(F)	(mΩ)	(mΩ)	(mA)	(mm)	(mm)	(mm)	-
5.5 (5.7) 5R5	0.33	1420	720	0.006	15.3 x 9 x 16.5	8.8/4.2	0.5	SCMDOR5R5334MRH091516ET0H0P088A
	0.5	1600	800	0.008	18.5 x 10.5 x 18.5	12/5.0	0.6	SCMDOR5R5504QRH101818ET0H0P120A
	1	660	340	0.010	18.5 x 10.5 x 18.5	12/5.0	0.6	SCMDOR5R5105QRH101818ET0H0P120A
	1.5	340	180	0.016	18.5 x 10.5 x 23.5	12/5.0	0.6	SCMDOR5R5155QRH101823ET0H0P120A
	1.5	340	180	0.014	22.5 x 12.5 x 20.5	15.5/5.5	0.6	SCMDOR5R5155QRH122220ET0H0P155A
	2.5	340	180	0.02	22.5 x 12.5 x 24.5	15.5/5.5	0.6	SCMDOR5R5255QRH122224ET0H0P155A
	3.5	340	180	0.03	22.5 x 12.5 x 24.5	15.5/5.5	0.6	SCMDOR5R5355QRH122224ET0H0P155A
	5	380	200	0.045	22.5 x 12.5 x 28.5	15.5/5.5	0.6	SCMDOR5R5505QRH122228ET0H0P155A