

SRE Series

Radial EDLC Cell 引线式EDLC 单体

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	3 V
Operating temperature / 工作温度	-40 to +65 °C (-40 to +85 °C at 2.5 V)
Surge voltage / 浪涌电压	3.2 V
Capacitance range / 容量范围	1-180 F
Capacitance tolerance at 25 °C / 容量偏差	-10% to +30%

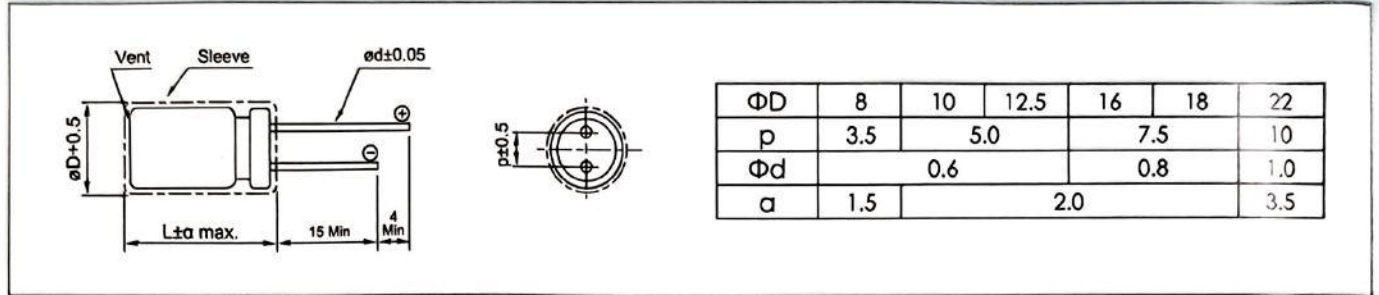
Reliability characteristics 可靠性特性

Test / 项目	Condition / 条件	Requirements / 要求
Temperature characteristics 温度特性	-40 to +65 °C -40 至 +65 °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, 65 °C, 1,000 h 额定电压, 65 °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
High-temperature storage 高温存储	65 °C, 1,000 h 65 °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

SRE Series

Radial EDLC Cell 引线式EDLC 单体

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 Cap. 25°C 额定容量 25°C	Impedance 内阻		Leakage Current 漏电流(72hrs)	Size 尺寸 $\Phi D \times L$	Weight 重量	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)	(g)	-
3 (3.2) 3R0	1	800	400	0.010	8 x 14	0.9	SCCDER3R0105QRH080014EP
	2	320	160	0.012	8 x 14	1.0	SCCDER3R0205QRH080014EP
	3	160	80	0.014	8 x 20	1.4	SCCDER3R0305QRH080020EP
	3.3	160	80	0.014	8 x 20	1.4	SCCDER3R0335QRH080020EP
	5	190	95	0.014	8 x 25	1.7	SCCDER3R0505QRH080025EP
	5	160	80	0.020	10 x 20	2.2	SCCDER3R0505QRH100020EP
	7	120	60	0.030	10 x 25	2.7	SCCDER3R0705QRH100025EP
	10	180	90	0.045	10 x 25	2.8	SCCDER3R0106QRH100025EP
	10	100	50	0.045	10 x 30	3.2	SCCDER3R0106QRH100030EP
	15	70	35	0.055	12.5 x 25	4.3	SCCDER3R0156QRH125025EP
	20	56	28	0.070	12.5 x 30	5.2	SCCDER3R0206QRH125030EP
	25	50	25	0.100	16 x 25	7.4	SCCDER3R0256QRH160025ET
	30	36	18	0.100	16 x 30	8.40	SCCDER3R0306QRH160030ET
	50	40	20	0.350	18 x 40	13.8	SCCDER3R0506QRH180040ET
	60	40	20	0.400	18 x 40	13.3	SCCDER3R0606QRH180040ET
	70	40	20	0.450	16 x 50	16.9	SCCDER3R0706QRH160050ET
	100	36	18	0.550	22 x 45	22.5	SCCDER3R0107QRH220045EP
	180	32	16	0.900	22 x 55	27.0	SCCDER3R0187QRH220055EP