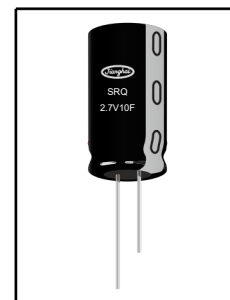


Typical application 典型应用

- Intelligent instruments: electronic meter, water meter, gas meter, hot meter
智能仪表: 国网电表、水表、燃气表、热表
- Communication terminal: RTU/DTU, DTU, FTU, fault current indicator
通讯终端: 智能测控终端、智能配电终端、智能馈线终端、故障指示器
- Auto electronics: auto recorder, auto door control, audio control, auto diagnosis system, wireless charging
汽车电子: 汽车记录仪、汽车门控、音响控制、汽车诊断系统、无线充
- Energy storage: server backup power, motor drive, brake, charging pile, security, fire protection
储能: 服务器备电、马达驱动、闸机、充电桩、安防、消防
- Consumer: Toys, robots, smart home, medical devices
消费类: 玩具、机器人、智能家居、医疗器械



Item 项目	Characteristics 特性		
Rated Voltage 额定电压	2.7V		
Operating Temperature Rang 工作温度范围	-40~+85°C		
Surge Voltage 浪涌电压	2.85V (≤ 1s, 1 次)		
Capacitance Range 容量范围	0.5~180F		
Capacitance Tolerance 容差范围 (25°C)	M: -20~+20%, T: 0~+50%, Q: -10~+30%		
Temperature Characteristics 温度特性	The specifications shall be met at category temperature of 85°C 在 85°C 时应满足的规范	Capacitance change 容量变化	Within 10% of the initial value at 25°C 在 25°C 时初始值的 10% 以内
		ESR _{AC} 交流内阻	Not more than the specified value 不超过规格值
	The specifications shall be met at category temperature of -40°C 在 -40°C 时应满足的规范	Capacitance change 容量变化	Within 30% of the initial value at 25°C 在 25°C 时初始值的 30% 以内
		ESR _{AC} 交流内阻	Not more than 4 times of the specified value 不超过 4 倍规格值
High Temperature Loaded 高温负荷	The specifications shall be met after 2.5V applied at 85°C for 1000 hours 在 85°C 时, 以 2.5V 恒压 1000h 后, 应满足的规范	Capacitance change 容量变化	Within 30% of the initial specified value 在规定值的 30% 以内
		ESR _{AC} 交流内阻	Not more than 4 times of the specified value 不超过 4 倍规格值
High Temperature Storage 高温存储	The specifications shall be met after storage at 85°C for 1000 hours 在 85°C 时, 不加电压储存 1000h 后, 应满足的规范	Capacitance change 容量变化	Within 30% of the initial specified value 在规定值的 30% 以内
		ESR _{AC} 交流内阻	Not more than 4 times of the specified value 不超过 4 倍规格值
Cycle Life 循环寿命	The specifications shall be met after 500,000 cycles at 25 °C , cycle of charge/discharge from V _R to 1/2V _R 在 25 °C 时, V _R ~ 1/2V _R 充放电循环 500,000 次后, 应满足的规范	Capacitance change 容量变化	Within 30% of the initial specified value 在规定值的 30% 以内
		ESR _{AC} 交流内阻	Not more than 4 times of the specified value 不超过 4 倍规格值

Dimensions 尺寸

mm

The figure illustrates the SRQ series EDLC cell with the following components and dimensions:

- Side View:** Shows the cell's profile with a **Vent** (ventilation hole) and a **Sleeve** (protective sleeve). The total length is **L**. The distance from the vent to the terminal is **15 Min**. The terminal diameter is Φd . The terminal is marked with **+** and **-** signs. The distance from the terminal to the end of the cell is **4 Min**.
- Top View:** Shows the circular cross-section with a diameter of ΦD . The distance from the center to the terminal is **p**.

ΦD	5	6.3	8	10	12	12.5	16	18	22
p	2.0	2.6	3.5	5.0			7.5		10
Φd	0.5			0.6			0.8		1.0

Standard Ratings for SRQ Series SRQ 系列标准额定值

U _s (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		峰值电流 Δt=1s	额定电流 Δt=5s	Leakage Current 漏电流 (72hrs)	Size 尺寸 ΦD×L	Weight 重量	P/N 产品代码
		ESR _{DC} 直流内阻	ESR _{AC} 交流内阻 (1KHz)						
(V)	(A)	(mΩ)	(mΩ)	(A)	(A)	(mA)	(mm)	(g)	-
2.7 (2.85) 2R7	0.5	1200	600	0.42	0.12	0.006	5×12	0.4	SCCDQR2R7504QRH050012EP
	1	800	400	0.75	0.23	0.010	8×14	0.9	SCCDQR2R7105QRH080014EP
	2	320	160	1.65	0.48	0.012	8×14	1.0	SCCDQR2R7205QRH080014EP
	3.3	200	100	2.68	0.79	0.016	8×20	1.4	SCCDQR2R7335QRH080020EP
	5	190	95	3.46	1.13	0.020	8×25	1.7	SCCDQR2R7505QRH080025EP
	5	160	80	3.75	1.16	0.020	10×20	2.2	SCCDQR2R7505QRH100020EP
	7	120	60	5.14	1.62	0.030	10×25	2.7	SCCDQR2R7705QRH100025EP
	10	100	50	7.11	2.29	0.045	10×25	2.8	SCCDQR2R7106QRH100025EP
	10	100	50	6.75	2.25	0.045	10×30	3.2	SCCDQR2R7106QRH100030EP
	10	100	50	6.75	2.25	0.045	12.5×20	3.4	SCCDQR2R7106QRH125020EP
	15	70	35	9.88	3.35	0.055	12.5×25	4.3	SCCDQR2R7156QRH125025EP
	20	56	28	12.74	4.41	0.070	12.5×30	5.2	SCCDQR2R7206QRH125030EP
	25	50	25	15.00	5.40	0.100	16×25	7.4	SCCDQR2R7256QRH160025EP
	30	50	25	16.20	6.23	0.120	16×30	8.4	SCCDQR2R7306QRH160030EP
	60	40	20	23.82	10.95	0.400	18×40	13.8	SCCDQR2R7606QRH180040EP
	80	40	20	25.71	13.17	0.500	18×50	16.9	SCCDQR2R7806QRH180050EP
	100	36	18	29.35	15.70	0.550	18×60	19.0	SCCDQR2R7107QRH180060EP
	100	36	18	30.45	17.38	0.550	22×45	22.5	SCCDQR2R7107QRH220045EP
	180	16	10	62.63	30.84	0.900	22×55	27.0	SCCDQR2R7187QRH220055EP