

## Typical application 典型应用

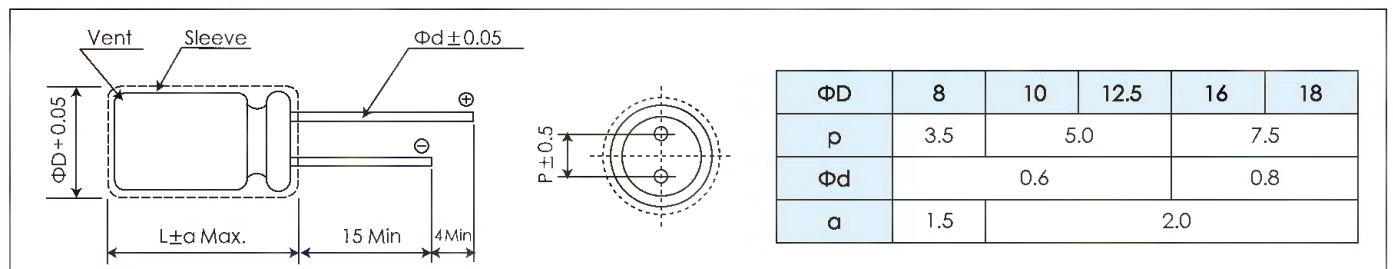
- Intelligent instruments: electronic meter, water meter, gas meter, hot meter  
智能仪表: 国网电表、水表、燃气表、热表
- Communication terminal: RTU/DTU, DTU, FTU, fault current indicator  
通讯终端: 智能测控终端、智能配电终端、智能馈线终端、故障指示器
- Auto electronics: auto recorder, auto door control, audio control, auto diagnosis system, wireless 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



Items 项目	Characteristics 特性		
Rated Voltage 额定电压	2.7 V		
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	1~50 F		
Capacitance Tolerance 容差范围(25°C)	-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 specified value 在规格值的10%以内
		ESR <sub>AC</sub> change 交流内阻变化	Not more than the initial specified value 不超过初始规定值
	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 specified value 在规格值的30%以内
		ESR <sub>AC</sub> change 交流内阻变化	Not more than 4 times of the initial specified value 不超过初始规定值的4倍
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 温度下, 以2.5V恒压1000h后, 应满足规范	Capacitance change 容量变化	Within 30% of the initial specified value 在规格值的30%以内
		ESR <sub>AC</sub> change 交流内阻变化	Not more than 4 times of the initial specified value 不超过初始规定值的4倍
High Temperature Storage 高温存储	The specifications shall be met after storage at 85°C for 1000 hours 在85°C 温度下, 不加电压储存1000h后, 应满足规范	Capacitance change 容量变化	Within 30% of the initial specified value 在规格值的30%以内
		ESR <sub>AC</sub> change 交流内阻变化	Not more than 4 times of the initial specified value 不超过初始规定值的4倍
Cycle Life 循环寿命	The specifications shall be met after 500,000 cycles at 25°C, cycle of charge/discharge from V <sub>R</sub> to 1/2V <sub>R</sub> 在25°C 温度下, V <sub>R</sub> ~ 1/2V <sub>R</sub> 充放电循环 500,000次后, 应满足规范	Capacitance change 容量变化	Within 30% of the initial specified value 在规格值的30%以内
		ESR <sub>AC</sub> change 交流内阻变化	Not more than 4 times of the initial specified value 不超过初始规定值的4倍

## Dimensions 尺寸

mm



## Ratings for SRQ Series SRQ 系列额定值

U <sub>s</sub> (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 ΦD×L	Weight 重量	P/N 产品代码
		ESR <sub>DC</sub> 直流内阻	ESR <sub>AC</sub> 交流内阻 (1KHz)				
(V)	(F)	(mΩ)	(mΩ)	(mA)	(mm)	(g)	-
2.7 (2.85) 2R7	1	800	400	0.010	8×14	0.9	SCCDQR2R7105QRH080014EP
	2	320	160	0.012	8×14	1.0	SCCDQR2R7205QRH080014EP
	3.3	200	100	0.016	8×20	1.4	SCCDQR2R7335QRH080020EP
	5	160	80	0.020	10×20	2.2	SCCDQR2R7505QRH100020EP
	7	120	60	0.030	10×25	2.7	SCCDQR2R7705QRH100025EP
	10	180	90	0.045	10×25	2.8	SCCDQR2R7106QRH100025EP
	10	100	50	0.045	10×30	3.2	SCCDQR2R7106QRH100030EP
	10	100	50	0.045	12.5×20	3.4	SCCDQR2R7106QRH125020EP
	15	70	35	0.055	12.5×25	4.3	SCCDQR2R7156QRH125025EP
	20	56	28	0.070	12.5×30	5.2	SCCDQR2R7206QRH125030EP
	25	50	25	0.100	16×25	7.4	SCCDQR2R7256QRH160025ET
	50	40	20	0.350	18×40	13.8	SCCDQR2R7506QRH180040ET