

Typical application 典型应用

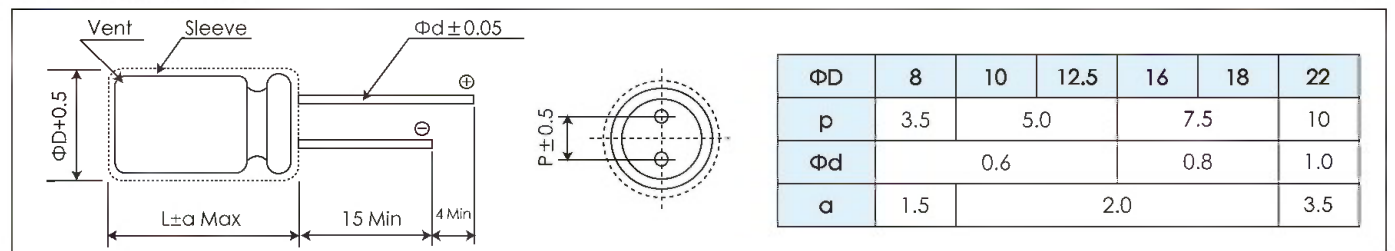
- Intelligent instruments: electronic meter, water meter, gas meter, hot meter
智能仪表: 国网电表、水表、燃气表、热表
- Communication terminal: RTU/DTU, DTU, FTU, fault current indicator
通讯终端: 智能测控终端、智能配电终端、智能馈线终端、故障指示器
- Auto electronics: auto recorder, auto door control, audio control, auto diagnosis system, wireless 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	3 V		
Operating Temperature Rang 工作温度范围	-40 ~ +65°C (-40 ~ +85°C @2.4V)		
Surge Voltage 浪涌电压	3.2 V (≤1s,1次)		
Capacitance Range 容量范围	1~180 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 65°C 在65°C时应满足的规范	Capacitance change 容量变化	Within 10% of the initial value 在初始值的10%以内
		ESR _{AC} 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 value 在初始值的30%以内
		ESR _{AC} 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 rated voltage applied at 65°C for 1000 hours 在65°C温度下, 以额定电压恒压1000h后, 应满足规范	Capacitance change 容量变化	Within 30% of the initial value 在初始值的30%以内
		ESR _{AC} 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 65°C for 1000 hours 在65°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 value 在初始值的30%以内
		ESR _{AC} 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 _R to 1/2V _R 在25°C温度下, V _R ~ 1/2V _R 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 value 在初始值的30%以内
		ESR _{AC} 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 SRE Series SRE 系列额定值

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		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 (1 KHz)				
(V)	(F)	(mΩ)	(mΩ)	(mA)	(mm)	(g)	-
3 (3.2) 3R0	1	800	400	0.010	8×14	0.9	SCCDE3R0105QRH080014EP
	2	400	200	0.012	8×14	1.0	SCCDE3R0205QRH080014EP
	3.3	200	100	0.016	8×20	1.4	SCCDE3R0335QRH080020EP
	5	190	95	0.020	8×25	1.7	SCCDE3R0505QRH080025EP
	5	160	80	0.020	10×20	2.2	SCCDE3R0505QRH100020EP
	7	120	60	0.030	10×25	2.7	SCCDE3R0705QRH100025EP
	10	180	90	0.045	10×25	2.8	SCCDE3R0106QRH100025EP
	10	100	50	0.045	10×30	3.2	SCCDE3R0106QRH100030EP
	15	70	35	0.055	12.5×25	4.3	SCCDE3R0156QRH125025EP
	20	56	28	0.070	12.5×30	5.2	SCCDE3R0206QRH125030EP
	25	50	25	0.100	16×25	7.4	SCCDE3R0256QRH160025ET
	50	40	20	0.350	18×40	13.8	SCCDE3R0506QRH180040ET
	60	40	20	0.400	18×40	13.3	SCCDE3R0606QRH180040ET
	70	40	20	0.500	16×50	16.9	SCCDE3R0706QRH160050ET
	100	36	18	0.550	22×45	22.5	SCCDE3R0107QRH220045EP
	180	32	16	0.900	22×55	27.0	SCCDE3R0187QRH220055EP