Typical application 典型应用

- Backup power supply of fan pitch control system
  风机变桨控制系统的后备电源
- Energy storage system of construction machinery
  工程机械储能系统
- Electric tool
  电动工具
- Industrial standby power supply
  工业备用电源
- AGV on-board power supply
  AGV 车载电源



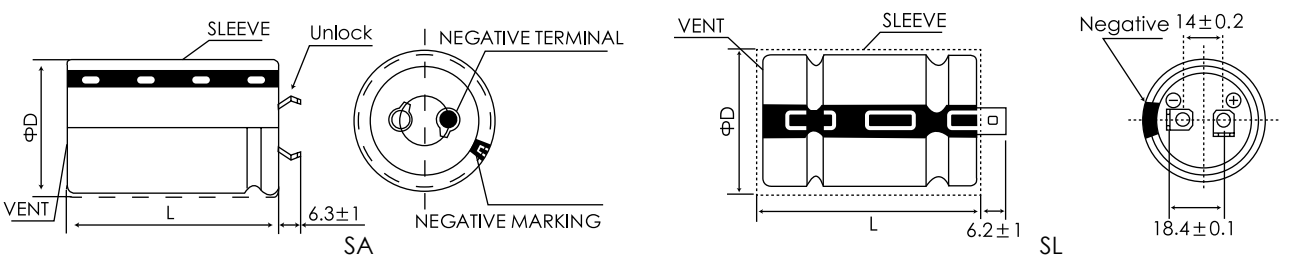
Concept product image

Item 项目	Characteristics 特性		
Rated Voltage 额定电压	3.0V		
Operating Temperature Rang 工作温度范围	-40~+65℃		
Surge Voltage 浪涌电压	3.15V		
Capacitance Range 容量范围	100~600F		
Capacitance Tolerance 容差范围 (25℃)	Q: -10~+30%, I: 0~+10%, R: 0~+20%; F: 0~+30%; T: 0~+50%		
Temperature Characteristics 温度特性	The specifications shall be met at category temperature of 65℃ 在 65℃时应满足的规范	Capacitance change 容量变化	Within 10% of the initial value at 25℃ 在 25℃时初始值的 10% 以内
		ESR_{AC} change 交流内阻变化	Not more than the specified value 不超过规定值
	The specifications shall be met at category temperature of -40℃ 在 -40 ℃时应满足的规范	Capacitance change 容量变化	Within 30% of the initial value at 25℃ 在 25℃时初始值的 30% 以内
		ESR_{AC} change 交流内阻变化	Not more than 200% of the specified value 不超过 2 倍规定值
High Temperature Loaded 高温负荷	The specifications shall be met after rated voltage applied at 65℃ for 1000hours 在 65℃时，以额定电压恒压 1000h 后，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 200% of the specified value 不超过 2 倍规定值
High Temperature Storage 高温存储	The specifications shall be met after storage at 70℃ for 1000 hours 在 70℃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 value 在初始值的 30% 以内
		ESR_{AC} change 交流内阻变化	Not more than 200% of the specified value 不超过 2 倍规定值
Cycle Life 循环寿命	The specifications shall be met after 500,000 cycles at 25 ℃ , cycle of charge/discharge from V_R to $1/2V_R$ 在 25 ℃ 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 value 在初始值的 30% 以内
		ESR_{AC} change 交流内阻变化	Not more than 200% of the specified value 不超过 2 倍规定值

EDLC

Dimensions 尺寸

mm



Source discrepancy: series range states 100~600 F, while the ratings table also lists 900 F.

Standard Ratings for S30 Series

U_R (Surge Voltage) Code 额定电压 (浪涌电压) 代码	Rated Cap. 25℃ 额定容量 25℃ (*)	Impedance 内阻		Peak Current 峰值电流 Δt=1s	Rated Current 额定电流	Leakage Current 漏电流 (72hrs)	Size 尺寸 ΦD x L	Weight 重量
		ESR_{DC} 直流内阻	ESR_{AC} 交流内阻 (1KHz)					
(V)	(F)	(mΩ)	(mΩ)	(A)	(A)	(mA)	(mm)	(g)
3.0 (3.15) 3R0	100	12	8	68	3.3	0.3	22×45	21
	120	12	8	74	4.0	0.3	22×45	21
	150	12	8	80	5.0	0.5	22×55	30
	150	11	7	85	5.0	0.5	25×50	30
	160	12	8	82	5.3	0.5	22×55	30
	200	10	6	100	6.7	0.7	30×50	36
	220	11	7	96	7.3	0.7	30×50	39
	240	11	7	99	8.0	0.7	30×50	45
	300	9	5	122	10.0	1.0	30×60	52
	330	9	5	125	11.0	1.0	30×60	52
	350	3.6	3.1	232	11.7	1.0	35×60	73
	400	3.3	2.9	259	13.3	1.2	35×60	73
	470	3.6	3.1	262	15.7	1.3	35×60	73
	500	3.5	3.0	273	16.7	1.5	35×67	76
	600	3.0	2.5	321	20.0	1.5	35×70	85
	900	2.5	2.0	415	30.0	3.0	35×105	123