

SRP 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	2.7 V
Operating temperature / 工作温度	-40 to +70 °C (-40 to +85 °C at 2.3 V)
Surge voltage / 浪涌电压	2.85 V
Capacitance range / 容量范围	0.3-180 F
Capacitance tolerance at 25 °C / 容量偏差	-10% to +30%

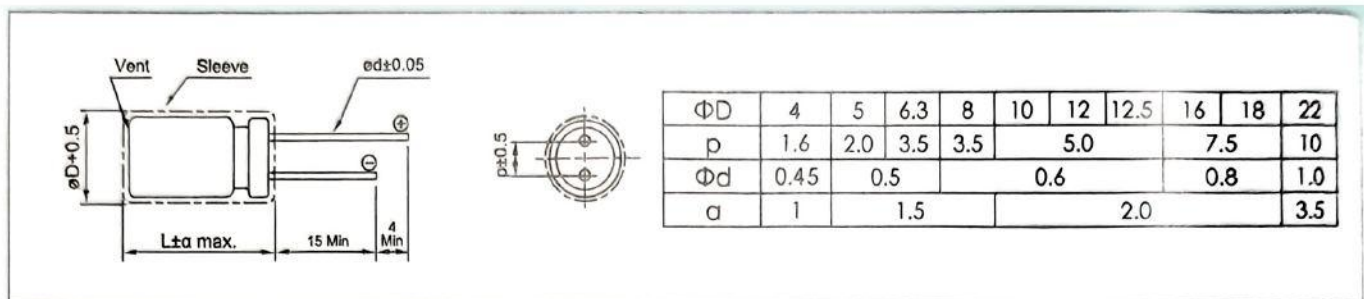
Reliability characteristics 可靠性特性

Test / 项目	Condition / 条件	Requirements / 要求
Temperature characteristics 温度特性	-40 to +70 °C -40 至 +70 ° 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, 70 °C, 1,000 h 额定电压, 70 ° 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	70 °C, 1,000 h 70 ° C, 1,000 小时	Capacitance change: within 30% of initial value ESR _{AC} : "2 × initial specified value 容量变化: 30% 以内; 内阻: ≤2 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} : "2 × initial specified value 容量变化: 30% 以内; 内阻: ≤2 倍

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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 (g)	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)	-
2.7 (2.85) 2R7	0.3	3400	1700	0.004	4 x 10	0.35	SCCDPR2R7304QRH040010EP
	0.35	1200	600	0.004	5 x 12	0.35	SCCDPR2R7354QRH050012EP
	0.5	900	450	0.005	5 x 12	0.40	SCCDPR2R7504QRH050012EP
	0.8	700	350	0.006	6.3x 12	0.66	SCCDPR2R7804QRH063012EP
	1	825	550	0.005	4 x 25	0.52	SCCDPR2R7105QRH040025EP
	1	400	200	0.008	8 x 12	0.85	SCCDPR2R7105QRH080012EP
	1	400	200	0.008	8 x 14	0.90	SCCDPR2R7105QRH080014EP
	1.2	680	450	0.006	4 x 35	0.65	SCCDPR2R7125QRH040035EP
	2	280	140	0.010	8 x 12	1.00	SCCDPR2R7205QRH080012EP
	2	280	140	0.010	8 x 14	1.00	SCCDPR2R7205QRH080014EP
	3	150	75	0.012	8 x 20	1.40	SCCDPR2R7305QRH080020EP
	3.3	150	75	0.014	8 x 20	1.43	SCCDPR2R7335QRH080020EP
	5	180	90	0.016	8x 25	1.70	SCCDPR2R7505QRH080025EP
	5	120	60	0.016	10 x 20	2.10	SCCDPR2R7505QRH100020EP
	7	130	65	0.020	10 x 20	2.20	SCCDPR2R7705QRH100020EP
	7	110	55	0.020	10 x 25	2.70	SCCDPR2R7705QRH100025EP
	10	90	45	0.030	10 x 25	2.80	SCCDPR2R7106QRH100025EP
	10	80	40	0.030	10 x 30	3.20	SCCDPR2R7106QRH100030EP
	10	80	40	0.030	12.5 x 20	3.40	SCCDPR2R7106QRH125020EP
	10	80	40	0.030	12.5 x 25	3.60	SCCDPR2R7106QRH125025EP
	15	60	30	0.045	12.5 x 25	4.30	SCCDPR2R7156QRH125025EP
	20	50	25	0.060	16x20	5.90	SCCDPR2R7206QRH160020ET
	25	44	22	0.080	16 x 25	7.40	SCCDPR2R7256QRH160025ET
	30	36	18	0.100	16x30	8.40	SCCDPR2R7306QRH160030EP
	40	36	18	0.120	16x35	9.90	SCCDPR2R7406QRH160035ET
	50	32	16	0.140	18 x 40	13.6	SCCDPR2R7506QRH180040ET
	60	32	16	0.140	18 x 40	13.6	SCCDPR2R7606QRH180040ET
	70	36	18	0.200	18 x 50	16.9	SCCDPR2R7706QRH180050ET
	100	36	18	0.300	18 x 60	16.9	SCCDPR2R7107QRH180060ET
	100	32	16	0.300	22x45	22.5	SCCDPR2R7107QRH220045EP
	120	32	16	0.300	22x45	22.5	SCCDPR2R7127QRH220045EP
	180	32	16	0.900	22x55	27.0	SCCDPR2R7187QRH220055EP