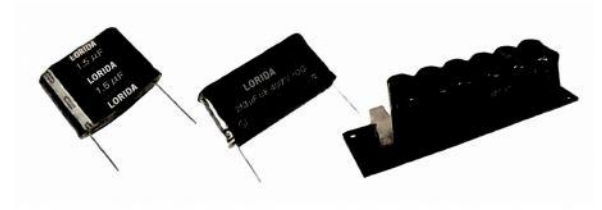


SMRE / SMRP Series

Radial EDLC Module 引线式EDLC 模组

Typical applications 典型应用

- Server backup power
- Communication terminals: RTU/DTU, DTU, FTU, fault-current indicators
- Auto electronics: recorders, door/audio controls, diagnosis systems, wireless charging



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	7.5-25 V
Operating temperature / 工作温度	-40 to +65 °C
Capacitance range / 容量范围	0.33-10 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 +65 °C -40 至 +65 °C	Capacitance change: within 30% of initial value at 25 °C ESR_{AC} : "2 × initial specified value"
High-temperature load 高温负荷	Rated voltage, 70 °C, 1,000 h (source EN) 5.0 V, 65 °C, 1,000 小时 (原中文)	Capacitance change: within 30% of initial value ESR_{AC} : "2 × initial specified value"
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"
Cycle life 循环寿命	500,000 cycles, 25 °C V_R to $\frac{1}{2}V_R$ 500,000 次充放电循环, 25 °C	Capacitance change: within 30% of initial value ESR_{AC} : "2 × initial specified value"

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 Capacitance 额定容量 25°C (*)	ESR_{DC} 直流内阻	Leakage Current 漏电流(72hrs)	Max. Peak Current (1s) 峰值电流	Size 尺寸 (LxWxH)	Weight 重量	P/N 产品代码
(V)	(F)	(mΩ)	(mA)	(A)	(mm)	(g)	-
7.5	3	290	0.03	6	39 x 13 x 27	20	SCMDPR7R5305QA
12.5	0.65	770	0.014	2.7	43 x 9.5 x 22	8	SCMDPR012654QA
13.5	8	350	0.25	14	64 x 13 x 51	50	SCMDER013805QA
25	10	340	0.3	28	100 x 40 x 63	230	SCMDPR025106QA

Custom products are available on request.

SMSP Series

Lug / Snap-in EDLC Module 焊针式 / 焊片式 EDLC 模组

Typical applications 典型应用

- Energy-controller backup power
- Smart-grid backup power
- Special-vehicle power supplies



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	5.4-800 V
Operating temperature / 工作温度	-40 to +65 °C
Capacitance range / 容量范围	7.5-180 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 +65 °C -40 至 +65 °C	Capacitance change: within 30% of initial value at 25 °C ESR_{AC} : "2 × initial specified value"
High-temperature load 高温负荷	Rated voltage, 65 °C, 1,000 h (source EN) 额定电压, 65 °C, 1,500 小时 (原中文)	Capacitance change: within 30% of initial value ESR_{AC} : "2 × initial specified value"
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"
Cycle life 循环寿命	500,000 cycles, 25 °C V_R to $\frac{1}{2}V_R$ 500,000 次充放电循环, 25 °C	Capacitance change: within 30% of initial value ESR_{AC} : "2 × initial specified value"

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 Capacitance 额定容量 25 °C (*)	ESR_{DC} 直流内阻	Leakage Current 漏电流(72hrs)	Max. Peak Current (1s) 峰值电流	Size 尺寸 (LxWxH)	Weight 重量	P/N 产品代码
(v)	(F)	(mΩ)	(mA)	(A)	(mm)	(Kg)	-
5.4	165	10	2	3	62x 36 x61	0.1	SCMDES5R4167RA
12	30	70	0.3	58	93 x 29 x50	0.13	SCMDPS012306QA
	40	55	0.5	75	103 x 31 x52	0.15	SCMDPS012406QA
27	180	30	1.8	380	400 x 140 x92	6.5	SCMDPS027187QA
64	10.5	100	1.0	220	435 x 72 x68	2.5	SCMDPS064196QA
432	7.5	105	2.7	930	650 x 520 x205	56	SCMDPS432755QA
800	9.3	120	6	1900	600 x 700 x1800	250	SCMDPS800935QA

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