

SRM Series

Radial EDLC Module 引线式EDLC 模组

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	5.5 V
Operating temperature / 工作温度	-40 to +70 °C (-40 to +85 °C at 4.6 V)
Surge voltage / 浪涌电压	5.7 V
Capacitance range / 容量范围	0.07-50 F
Capacitance tolerance at 25 °C / 容量偏差	-10% to +30%

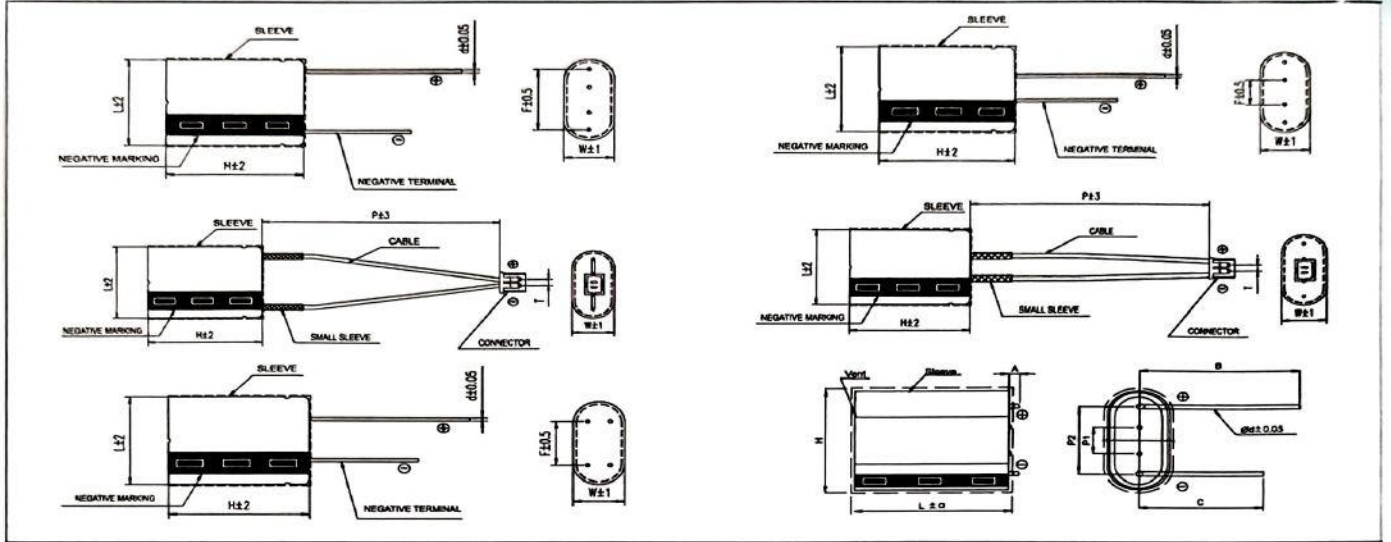
Reliability characteristics 可靠性特性

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 Capacitance 额定容量 25℃	Impedance 内阻		Leakage Current 漏电流 (72hrs)	Size 尺寸 (L x W x H)	Pin spacing 引脚间距 (F)	Wire diameter 引线直径 (d)	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)	(mm)	(mm)	-
5.5 (5.7) 5R5	0.07	1250	500	0.003	11 x 5.5 x 12	7.5/3.5	0.5	SCMDMR5R5703ZRH051112ET0H0P075A
	0.1	2400	1200	0.006	11 x 5.5 x 13	7.5/3.5	0.5	SCMDMR5R5104ZRH051113ET0H0P075A
	0.22	1800	900	0.005	11 x 5.5 x 14	7.5/3.5	0.5	SCMDMR5R5224QRH051114ET0H0P075A
	0.33	1400	700	0.006	13 x 6.5 x 14	8.8/4.2	0.5	SCMDMR5R5334QRH061314ET0H0P088A
	0.5	820	420	0.008	17 x 8.5 x 16	12/5.0	0.6	SCMDMR5R5504QRH081716ET0H0P120A
	1	500	260	0.01	17 x 8.5 x 16	12/5.0	0.6	SCMDMR5R5105QRH081716ET0H0P120A
	1.5	320	170	0.012	17 x 8.5 x 22	12/5.0	0.6	SCMDMR5R5155QRH081722ET0H0P120A
	2.5	380	200	0.016	17 x 8.5 x 27	12/5.0	0.6	SCMDMR5R5255QRH081727ET0H0P120A
	2.5	260	140	0.016	21 x 11x 22	15.5/5.5	0.6	SCMDMR5R5255QRH112122ET0H0P155A
	3.5	340	180	0.02	17 x 8.5x 32	12/5.0	0.6	SCMDMR5R5355QRH081732ET0H0P120A
	3.5	280	150	0.02	21x 11x 22	15.5/5.5	0.6	SCMDMR5R5355QRH112122ET0H0P155A
	3.5	240	130	0.02	21 x11 x27	15.5/5.5	0.6	SCMDMR5R5355QRH112127ET0H0P155A
	5	200	110	0.03	21 x11 x27	15.5/5.5	0.6	SCMDMR5R5505QRH112127ET0H0P155A
	5	180	100	0.03	26 x 13 x 23	18/8	0.6	SCMDMR5R5505QRH132623ET0H0P180A
	5	180	100	0.03	21 x 11 x 33	15.5/5.5	0.6	SCMDMR5R5505QRH112133ET0H0P155A
	5	180	100	0.03	26 x 13 x 27	18/8	0.6	SCMDMR5R5505QRH132627ET0H0P180A
	8	140	80	0.045	26 x 13 x 27	18/8	0.6	SCMDMR5R5805QRH132627ET0H0P180A
	8	140	80	0.045	26 x 13 x 33	18/8	0.6	SCMDMR5R805QRH132633ET0H0P180A
	10	120	70	0.06	33 x 17 x 24	24/9	0.8	SCMDMR5R5106QRH173324ET0H0P240A
	10	120	70	0.06	26 x 13 x 27	24/9	0.8	SCMDMR5R5106QRH173329ET0H0P240A
	10	140	80	0.06	26 x 13 x 33	18/8	0.6	SCMDMR5R5106QRH132633ET0H0P180A
	12	108	64	0.08	33 x 17 x 29	24/9	0.8	SCMDMR5R5126QRH173329ET0H0P240A
	15	92	56	0.1	33 x 17 x 35	24/9	0.8	SCMDMR5R5156QRH173335ET0H0P240A
	18	92	56	0.12	33 x 17 x 35	24/9	0.8	SCMDMR5R5186QRH173339ET0H0P240A
	20	92	56	0.12	33 x 17 x 39	24/9	0.8	SCMDMR5R5206QRH173339ET0H0P240A
	25	84	52	0.14	37 x 18 x 43	26/11	0.8	SCMDMR5R5256QRH183743ET0H0P260A
	35	92	56	0.2	37 x 18 x 53	26/11	0.8	SCMDMR5R5356QRH183753ET0H0P260A
	50	84	52	0.3	37 x 18 x 61	26/11	0.8	SCMDMR5R5506QRH183761ET0H0P260A