

BR Series

Radial LIC Cell 引线式 LIC 单体

Typical applications 典型应用

- Smart meters: water, gas and heat meters
- Scanners
- Electric tools
- Wireless charging for smart-home remote controls
- Backup power; IoT power; server backup power; ETC



Branding illustration / 品牌外观示意

Electrical characteristics 电气特性

Parameter / 项目	Specification / 规格
Rated max. operating voltage / 额定最高工作电压	3.8 V
Rated min. operating voltage / 额定最低工作电压	2.5 V
Min. allowable operating voltage / 最低允许工作电压	2.2 V
Operating temperature / 工作温度	-15 to +70 °C / +85 °C (3.5 V)
Surge voltage / 浪涌电压	4.2 V
Capacitance range / 容量范围	10-1000 F
Capacitance tolerance at 20 °C / 容量偏差	-20% to +20% / -10% to +30%

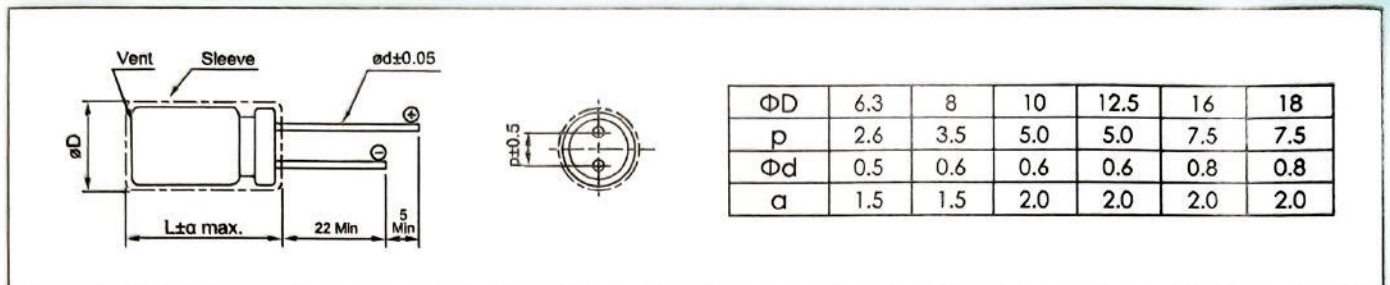
Reliability characteristics 可靠性特性

Test / 项目	Condition / 条件	Requirements / 要求
Temperature characteristics 温度特性	-15 to +70 °C -15 至 +70 °C	Capacitance change: within 50% of initial value at 25 °C ESR _{AC} : " 10 × initial specified value 容量变化: 50% 以内; 内阻: ≤10 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} : " 2 × initial specified value 容量变化: 30% 以内; 内阻: ≤2 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 3.8-2.5 V 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

BR Series

Radial LIC Cell 引线式 LIC 单体

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) 浪涌电压 Code	Rated Cap. 额定容量 25℃	Impedance 内阻		Rated. Current 额定电流	Max. Current 最大电流 (≤ 3 sec)	Leakage Current 漏电流	Size 尺寸 $\Phi D \times L$	P/N 部品号
		ESR _{DC} 直流内阻	ESR _{AC} 交流内阻 (1KHz)					
(V)	(F)	(mΩ)	(mΩ)	(A)	(A)	(μA)	(mm)	
3.8 (4.2) 3R8	10	1800	500	0.05	0.5	2.0	8*14	SCCHBR3R8106MRH080014E
	12	1800	500	0.05	0.5	2.0	8*14	SCCHBR3R8126MRH080014E
	13	1800	600	0.065	0.65	2.1	6.3*22	SCCHBR3R8136MRH063022E
	20	1200	350	0.125	0.8	2.5	8*20	SCCHBR3R8206QRH080020E
	25	1200	350	0.125	0.8	2.5	8*20	SCCHBR3R8256MRH080020E
	30	900	250	0.15	0.9	3.0	8*25	SCCHBR3R8306MRH080025E
	30	900	250	0.15	1.0	3.0	10*16	SCCHBR3R8306MRH100016E
	35	900	250	0.15	1.0	3.0	10*16	SCCHBR3R8356QRH100016E
	45	700	200	0.25	1.8	4.5	10*20	SCCHBR3R8456QRH100020E
	50	700	200	0.25	1.8	4.5	10*20	SCCHBR3R8506MRH100020E
	65	480	120	0.35	3.0	5.0	10*25	SCCHBR3R8656QRH100025E
	70	480	120	0.35	3.0	5.0	10*25	SCCHBR3R8706MRH100025E
	100	450	100	0.55	4.5	6.5	10*30	SCCHBR3R8107MRH100030E
	120	400	90	0.6	5.0	7.0	12.5*25	SCCHBR3R8127MRH125025E
	220	240	60	1.1	8.0	12.0	16*25	SCCHBR3R8227MRH160025E
	500	120	40	2.75	20	35.0	18*40	SCCHBR3R8507QRH180040E
	1000	50	25	5	30	60.0	18*60	SCCHBR3R8108MRH180060E