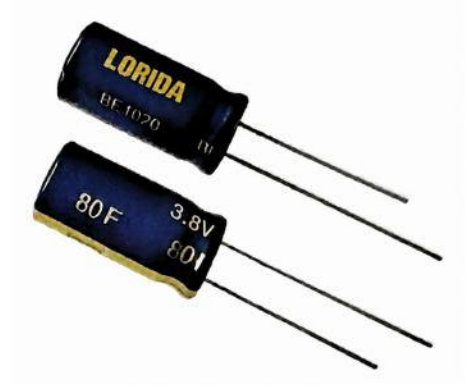


BE Series

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
- Electric equipment
- Driving recorders
- 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	-25 to +70 °C / +85 °C (3.5 V)
Surge voltage / 浪涌电压	4.2 V
Capacitance range / 容量范围	3-1400 F
Capacitance tolerance at 20 °C / 容量偏差	-20% to +20% / 0% to +50% / -20% to +50%

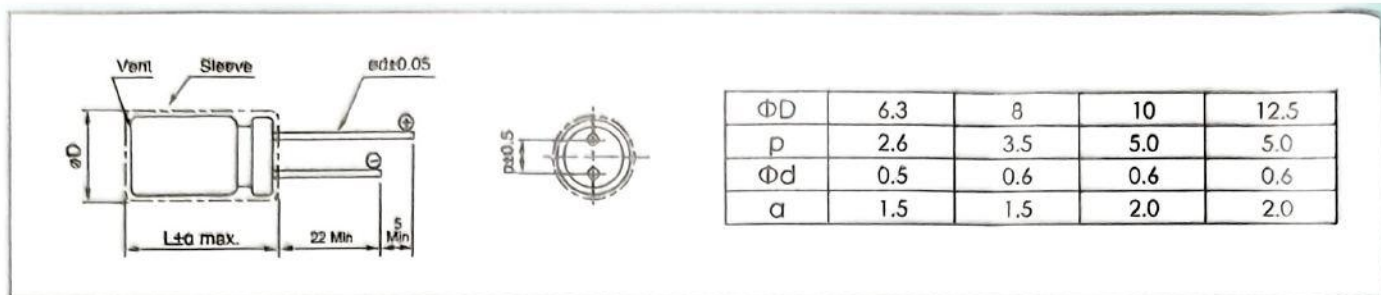
Reliability characteristics 可靠性特性

Test / 项目	Condition / 条件	Requirements / 要求
Temperature characteristics 温度特性	-25 to +70 °C -25 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	250,000 cycles, 25 °C 3.8-2.5 V 250,000 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) 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 (≤3sec)	Leakage Current 漏电流	Size 尺寸 ΦD×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	3	9000	4000	0.015	0.1	1.8	5*12	SCCHBE3R8305MRH050012E
	8	2600	1200	0.04	0.25	2.0	6.3*12	SCCHBE3R8805SRH063012E
	20	1000	450	0.11	0.7	3.5	6.3*22	SCCHBE3R8206TRH063022E
	25	900	400	0.125	0.8	2.5	8*14	SCCHBE3R8256MRH080014E
	40	550	250	0.2	1.2	3.2	8*20	SCCHBE3R8406MRH080020E
	55	450	200	0.275	1.8	5.0	8*25	SCCHBE3R8556MRH080025E
	50	450	200	0.275	1.8	5.0	10*16	SCCHBE3R8506TRH100016E
	60	400	200	0.3	2.0	8.0	12.5*13	SCCHBE3R8607MRH125013E
	80	250	120	0.425	3.5	8.0	10*20	SCCHBE3R8806MRH100020E
	100	220	90	0.55	4	9.0	10*25	SCCHBE3R8107MRH100025E
	150	140	70	0.75	6	15.0	10*30	SCCHBE3R8157MRH100030E
	200	135	65	1	6	18.0	12.5*25	SCCHBE3R8207MRH125025E
	300	100	50	1.5	10	30.0	12.5*35	SCCHBE3R8307MRH125035E
	350	90	45	1.75	11	35.0	12.5*40	SCCHBE3R8357MRH125040E
	400	80	45	2	12	70.0	12.5*45	SCCHBE3R8407MRH125045E
	450	60	40	2.25	15	70.0	16*30	SCCHBE3R8457MRH160030E
	850	70	35	4.25	28	70.0	18*40	SCCHBE3R8857MRH180040E
	1000	65	30	5	30	100.0	18*50	SCCHBE3R8108TRH180050E
	1400	50	20	7	40	120.0	18*60	SCCHBE3R8148MRH180060E