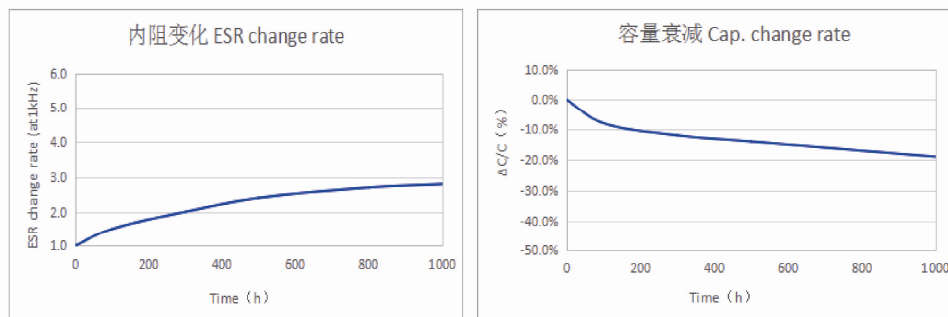
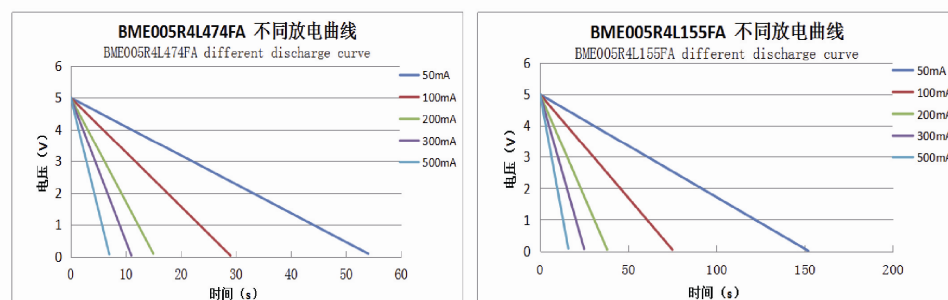


◎ 特性曲线 / characteristic curve

(3) 高温特性
High Temperature Life (at 5.4V/7.5V, 70℃)



(4) 放电特性特性
LC characteristics



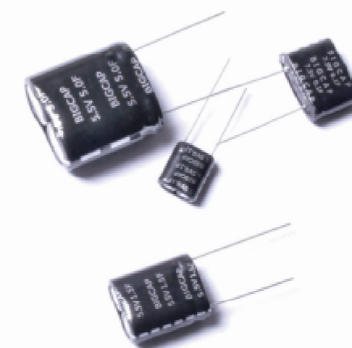
*以上特性曲线图均是趋势图，每一个型号的具体数据请与厂家技术支持联系

*The above characteristic curves are trend charts. Please contact the manufacturer's technical support for the specific data of each model

BMP 系列 BMP series

◎ 产品特点 / Features

- 内部串联结构，超低内阻；
Internal tandem structure, ultra-low internal resistance;
- 符合ROHS标准，无Cd、Pb等污染物质；
Comply with ROHS standards no Cd Pb and other pollutants;
- 充放电循环寿命长；
Long charge-discharge cycle life;
- 超低漏电流，适合与电池配合使用。
Ultra-low leakage current, suitable for use with battery.



◎ 应用 / Applications

- 工作电流100mA~几百A，工作时间微秒级至几分钟；
Working current greater than 100mA, working hours microseconds to a few minutes;
- 可用于燃气表、水表、热量表断电关阀，抄表系统等。
Can be used for gas meter, water meter, heat meter power shut valve, meter reading system, etc.

◎ 标准测试条件 / standard test conditions

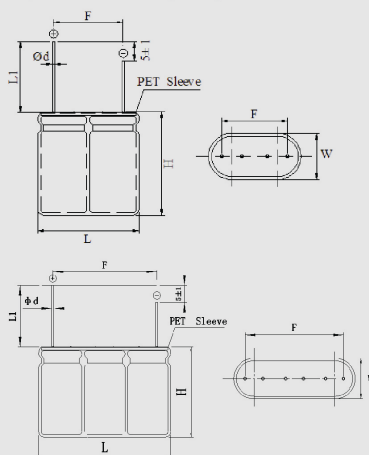
- 在标准大气压，温度5~35℃，相对湿度小于85%条件下进行测试；本规格书标准测试条件为标准大气压，温度25℃，相对湿度小于60%。
Products are tested under normal pressure, the temperature range is from 5~35℃ and relative humidity is less than RH85%. The standard test conditions in this product specification are as follows: under normal pressure; the temperature at 25℃ and the relative humidity less than 60%

◎ 型号命名规则 / Part Number System

产品系列	额定电压	结构类型	容量	内部控制编码
卷绕PC系列-BRE	2.7V-002R7	卷绕引线型-L	0.047-473	
卷绕AN系列-BRP	2.8V-002R8	卷绕盖板型-S/C	0.1F-104	
纽扣PC常规-BCE	5.4V-005R4	卷绕螺柱型-W	0.47F-474	
纽扣4Φ小型-BCM	5.5V-005R5	卷绕螺柱型-B	1.0F-105	
纽扣高温系列 85℃-BCT	48-048R0	卷绕多引出型-M	8.0F-805	
组合高温系列85℃-BMT	100-100R0	纽扣立式-V	10F-106	
组合PC系列-BME	200-200R0	纽扣卧式-H	22F-226	
组合AN系列-BMP		纽扣C型-C	100F-107	
卷绕高比能量AN系列-BUP			360F-367	
卷绕高温系列85℃-BRT			400F-407	
			3000F-308	

◎ BIGCAP 标准产品外形尺寸图 / Shape of standard product

两端引出式产品外形示意图:
Shape of wire lead supercapacitor:



尺寸 Size, mm L×W×H	φd	F	L1
11×6×12	0.5	7	27
11×6×13	0.5	7	27
13×7×12	0.5	9	27
13×7×14	0.5	9	27
17×9×15	0.6	12	29
17×9×18	0.6	12	29
17×9×21	0.6	12	29
17×9×34	0.6	12	29
19.5×7×14	0.5	10	27
21×10×18	0.6	15	29
21×10×21	0.6	15	29
21×10×26	0.6	15	29
21×10×29	0.6	15	29
25×9×15	0.6	13.5	29
25×9×21	0.6	13.5	29
26×13×21	0.6	18	20
26×13×22	0.6	18	27
26×13×27	0.6	18	29
26×13×35	0.6	18	29
31×10×21	0.6	16	27/29
33×17×23	0.8	24	29
33×17×28	0.8	24	29
33×17×35	0.8	24	29
37×19×43	0.8	26	29
39×13×22	0.6	21	27
39×13×27	0.6	21	29
49×17×28	0.8	25.5	29

◎ BIGCAP标准产品规格 / Standard product specification

型号 Part Number	额定电压 Nominal Voltage ,V dc	容量 Capacitance F	容量允许偏差 Cap.olerance	内阻 ESR, mΩ		尺寸 Size, mm ΦD×L	质量 Weight g	体积 Volume ml
				AC@1kHz	DC			
BMP005R5L473FA	5.5	0.047	0-+80%	900	1350	11×6×13	1.0	0.86
BMP005R5L473FB	5.5	0.047	0-+80%	900	1350	11×6×12	1.0	0.79
BMP005R5L104FA	5.5	0.1	±20%	1000	1500	11×6×13	1.2	0.86
BMP005R5L104FB	5.5	0.1	±20%	1000	1500	13×7×14	1.2	1.27
BMP005R5L224FA	5.5	0.22	0-+40%	800	1200	13×7×14	1.4	1.27
BMP005R5L224FB	5.5	0.22	±20%	800	1200	11×6×13	1.4	0.86
BMP005R5L224FC	5.5	0.22	±20%	1000	1500	13×7×12	2.0	1.09
BMP005R5L334FA	5.5	0.33	0-+40%	800	1200	17×9×15	2.0	2.30
BMP005R5L474FA	5.5	0.47	0-+40%	600	900	17×9×15	2.2	2.30
BMP005R5L474FB	5.5	0.47	0-+80%	400	600	17×9×21	2.6	3.21
BMP005R5L474FC	5.5	0.47	0-+80%	400	600	17×9×15	2.7	2.30
BMP005R5L474FD	5.5	0.47	±20%	600	900	13×7×14	2.2	1.27
BMP005R5L105FA	5.5	1.0	±20%	280	420	17×9×21	3.0	3.21
BMP005R5L105FB	5.5	1.0	±20%	280	420	21×10×21	3.2	4.41
BMP005R5L155FA	5.5	1.5	±20%	200	300	17×9×21	3.2	3.21
BMP005R5L155FB	5.5	1.5	±20%	240	360	17×9×18	4.5	2.75
BMP005R5L155FH	5.5	1.5	0-+40%	160	240	21×10×21	4.2	4.41
BMP005R5L155FJ	5.5	1.5	±20%	200	300	21×10×18	3.6	3.78
BMP005R5L205FA	5.5	2.0	0-+40%	140	210	26×13×22	6.5	7.44
BMP005R5L205FC	5.5	2.0	±20%	120	180	21×10×21	4.2	4.41
BMP005R5L255FA	5.5	2.5	±20%	140	210	21×10×21	4.6	4.41
BMP005R5L305FA	5.5	3.0	±20%	140	210	21×10×21	4.8	4.41
BMP005R5L405FA	5.5	4.0	±20%	100	150	26×13×22	7.7	7.44
BMP005R5L405FC	5.5	4.0	±20%	100	150	26×13×21	7.2	7.10
BMP005R5L505FA	5.5	5.0	±20%	100	150	26×13×27	8.4	9.13
BMP005R5L805FB	5.5	8.0	±20%	60	90	33×17×23	12.0	12.90
BMP005R5L805FC	5.5	8.0	±20%	60	90	33×17×28	13.0	15.71
BMP005R5L106FA	5.5	10	±20%	50	75	33×17×28	15.0	15.71
BMP005R5L156FA	5.5	15	±20%	50	75	33×17×35	18.0	19.64
BMP005R5L256FA	5.5	25	±20%	40	60	37×19×43	25.5	30.23
BMP005R5L306FA	5.5	30	±20%	30	45	37×19×43	30.0	30.23
BMP007R5L104FA	7.5	0.10	0-+80%	1200	1800	19.5×7×14	2.4	1.91
BMP007R5L334FA	7.5	0.33	0-+80%	600	900	25×9×15	4.5	3.38
BMP007R5L704FA	7.5	0.7	±20%	420	630	25×9×21	3.0	4.73
BMP007R5L105FA	7.5	1.0	±20%	300	450	25×9×21	5.0	4.73

© BIGCAP标准产品规格 / Standard product specification

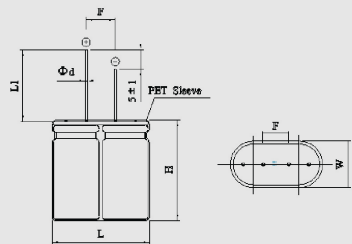
型号 Part Number	额定电压 Nominal Voltage ,V dc	容量 Capacitance F	容量允许偏差 Cap.olerance	内阻 ESR, mΩ		尺寸 Size, mm ΦD×L	质量 Weight g	体积 Volume ml
				AC@1kHz	DC			
BMP007R5L105FB	7.5	1.0	±20%	240	360	31×11×18	5.4	6.14
BMP007R5L155FA	7.5	1.5	0~+40%	210	315	39×13×22	9.6	11.15
BMP007R5L155FB	7.5	1.5	0~+40%	210	315	31×10×21	9.3	6.51
BMP007R5L205FA	7.5	2.0	±20%	210	315	31×10×21	7.0	6.51
BMP007R5L255FA	7.5	2.5	±20%	150	225	39×13×22	10.8	11.15
BMP007R5L335FA	7.5	3.3	±20%	150	225	39×13×27	8.6	13.69
BMP007R5L505FA	7.5	5	±20%	90	135	49×17×28	18	23.32

型号 Part Number	存储能量 Max. Stored Energy, mWh	能量密度 Energy Density		功率密度 Power Density		额定电流 Nominal Current,A	最大电流 Max Current,A	72hLC Leakage Current at 72h (25℃) ,uA
		质量比 Wh/kg Gravimetric	体积比 Wh/L Volumetric	质量比 Wh/kg Gravimetric	体积比 Wh/L Volumetric			
BMP005R5L473FA	0.20	0.20	0.23	5.60	6.53	0.06	0.32	<1
BMP005R5L473FB	0.20	0.20	0.25	5.60	7.07	0.06	0.32	<1
BMP005R5L104FA	0.42	0.35	0.49	4.20	5.88	0.1	0.50	<1
BMP005R5L104FB	0.42	0.35	0.33	4.20	3.96	0.1	0.50	<1
BMP005R5L224FA	0.92	0.66	0.73	4.50	4.95	0.17	0.68	<2
BMP005R5L224FB	0.92	0.66	1.08	4.50	7.35	0.17	0.68	<2
BMP005R5L224FC	0.92	0.46	0.85	2.52	4.62	0.18	0.72	<2
BMP005R5L334FA	1.39	0.69	0.60	3.15	2.75	0.18	0.72	<2
BMP005R5L474FA	1.97	0.90	0.86	3.82	3.66	0.3	0.92	<2
BMP005R5L474FB	1.97	0.76	0.61	4.85	3.92	0.3	0.92	<2
BMP005R5L474FC	1.97	0.73	0.86	4.67	5.49	0.45	1.41	<2
BMP005R5L474FD	1.97	0.90	1.55	3.82	6.60	0.26	0.81	<2
BMP005R5L105FA	4.20	1.40	1.31	6.00	5.60	0.58	2.0	<4
BMP005R5L105FB	4.20	1.31	0.95	5.63	4.08	0.58	2.0	<4
BMP005R5L155FA	6.30	1.97	1.96	7.88	7.85	0.77	3.19	<6
BMP005R5L155FB	6.30	1.40	2.29	4.67	7.63	0.77	3.19	<6
BMP005R5L155FH	6.30	1.50	1.43	7.50	7.15	0.77	3.19	<7
BMP005R5L155FJ	6.30	1.75	1.67	7.00	6.67	0.77	3.19	<6
BMP005R5L205FA	8.40	1.29	1.13	5.54	4.84	1.26	5.0	<10

型号 Part Number	存储能量 Max. Stored Energy, mWh	能量密度 Energy Density		功率密度 Power Density		额定电流 Nominal Current,A	最大电流 Max Current,A	72hLC Leakage Current at 72h (25℃) ,uA
		质量比 Wh/kg Gravimetric	体积比 Wh/L Volumetric	质量比 Wh/kg Gravimetric	体积比 Wh/L Volumetric			
BMP005R5L205FC	8.40	2.00	1.91	10.00	9.53	1.26	5.0	<8
BMP005R5L255FA	10.50	2.28	2.38	7.83	8.17	1.26	5.0	<10
BMP005R5L305FA	12.60	2.63	2.86	7.50	8.17	1.52	5.5	<12
BMP005R5L405FA	16.81	2.18	2.26	6.55	6.78	2.26	7.0	<16
BMP005R5L405FC	16.81	2.33	2.37	7.00	7.10	2.26	7.0	<16
BMP005R5L505FA	21.01	2.50	2.30	6.00	5.52	2.45	9.0	<20
BMP005R5L005FB	33.61	2.80	2.61	7.00	6.51	3.45	10.2	<32
BMP005R5L805FC	33.61	2.59	2.14	6.46	5.35	3.45	10.2	<30
BMP005R5L106FA	42.01	2.80	2.67	6.72	6.42	5.63	16.9	<44
BMP005R5L156FA	63.02	3.50	3.21	5.60	5.14	6.5	18.8	<60
BMP005R5L256FA	105.03	4.12	3.47	4.94	4.17	10.4	27.0	<100
BMP005R5L306FA	126.04	4.20	4.17	5.60	5.56	11.6	30.2	<120
BMP007R5L104FA	0.78	0.33	0.41	3.26	4.09	0.17	0.68	<2
BMP007R5L334FA	2.58	0.57	0.76	3.47	4.63	0.45	1.41	<2
BMP007R5L704FA	5.47	1.82	1.16	7.44	4.72	0.58	2.0	<4
BMP007R5L105FA	7.81	1.56	1.65	6.25	6.61	0.77	3.19	<6
BMP007R5L105FB	7.81	1.45	1.27	7.23	6.36	0.77	3.19	<7
BMP007R5L155FA	11.72	1.22	1.05	4.65	4.00	1.26	5.0	<10
BMP007R5L155FB	11.72	1.26	1.80	4.80	6.86	1.26	5.0	<10
BMP007R5L205FA	15.63	2.23	2.40	6.38	6.86	1.52	5.53	<12
BMP007R5L255FA	19.53	1.81	1.75	5.79	5.60	2.26	7.0	<16
BMP007R5L335FA	25.78	3.00	1.88	7.27	4.57	2.45	9.0	<20
BMP007R5L505FA	39.06	2.17	1.68	5.79	4.47	3.16	9.3	<30

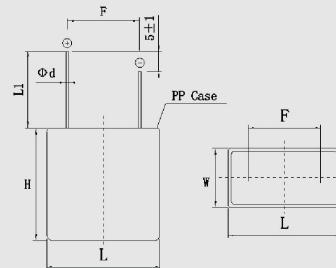
◎ BIGCAP 标准产品外形尺寸图 / Shape of standard product

中间引出式产品外形示意图:
Shape of snap-in and lead types supercapacitor;



尺寸 Size, mm L × W × H	φd	F	L1
17 × 9 × 15	0.6	5	29
17 × 9 × 21	0.6	5	29
17 × 9 × 26	0.6	5	29
17 × 9 × 34	0.6	5	29
21 × 10 × 21	0.6	5.3	29
21 × 10 × 26	0.6	5.3	29
26 × 13 × 22	0.6	7.5	27

全密封型产品外形示意图:
Shape of full seal structure supercapacitor;



尺寸 Size, mm L × W × H	φd	F	L1
14.7 × 8.1 × 13.5	0.5	9	23
18 × 9.6 × 18	0.6	12	26
18 × 9.6 × 25.5	0.6	12	24
22 × 11.6 × 25.5	0.6	15	24

◎ BIGCAP标准产品规格 / Standard product specification

型号 Part Number	额定电压 Nominal Voltage, V dc	容量 Capacitance F	容量允许偏差 Cap.olerance	内阻 ESR, mΩ		尺寸 Size, mm φD × L	质量 Weight g	体积 Volume ml
				AC@1kHz	DC			
BMP005R5L474FG	5.5	0.47	0~+80%	180	270	21 × 10 × 21	3.8	4.41
BMP005R5L474FH	5.5	0.47	0~+40%	600	900	17 × 9 × 15	2.1	2.30
BMP005R5L474FJ	5.5	0.47	0~+80%	400	600	17 × 9 × 15	2.1	2.30
BMP005R5L105FD	5.5	1.0	±20%	280	420	17 × 9 × 21	2.8	3.21
BMP005R5L155FC	5.5	1.5	±20%	200	300	17 × 9 × 21	2.95	3.21
BMP005R5L205FB	5.5	2.0	0~+40%	140	210	26 × 13 × 22	6.5	7.44

型号 Part Number	存储能量 Max. Stored Energy, mWh	能量密度 Energy Density		功率密度 Power Density		额定电流 Nominal Current, A	最大电流 Max Current, A	72hLC Leakage Current at 72h (25°C) μA
		质量比 Wh/kg Gravimetric	体积比 Wh/L Volumetric	质量比 Wh/kg Gravimetric	体积比 Wh/L Volumetric			
BMP005R5L474FG	1.97	0.52	0.45	7.37	6.35	0.45	1.41	<2
BMP005R5L474FH	1.97	0.94	0.86	4.00	3.66	0.3	0.92	<2
BMP005R5L474FJ	1.97	0.94	0.86	6.00	5.49	0.45	1.41	<2
BMP005R5L105FD	4.20	1.50	1.31	6.43	5.61	0.3	0.92	<4
BMP005R5L155FC	6.30	2.14	1.96	8.55	7.85	0.77	3.19	<6
BMP005R5L205FB	8.40	1.29	1.13	5.54	4.84	1.26	5.0	<10

◎ BIGCAP标准产品规格 / Standard product specification

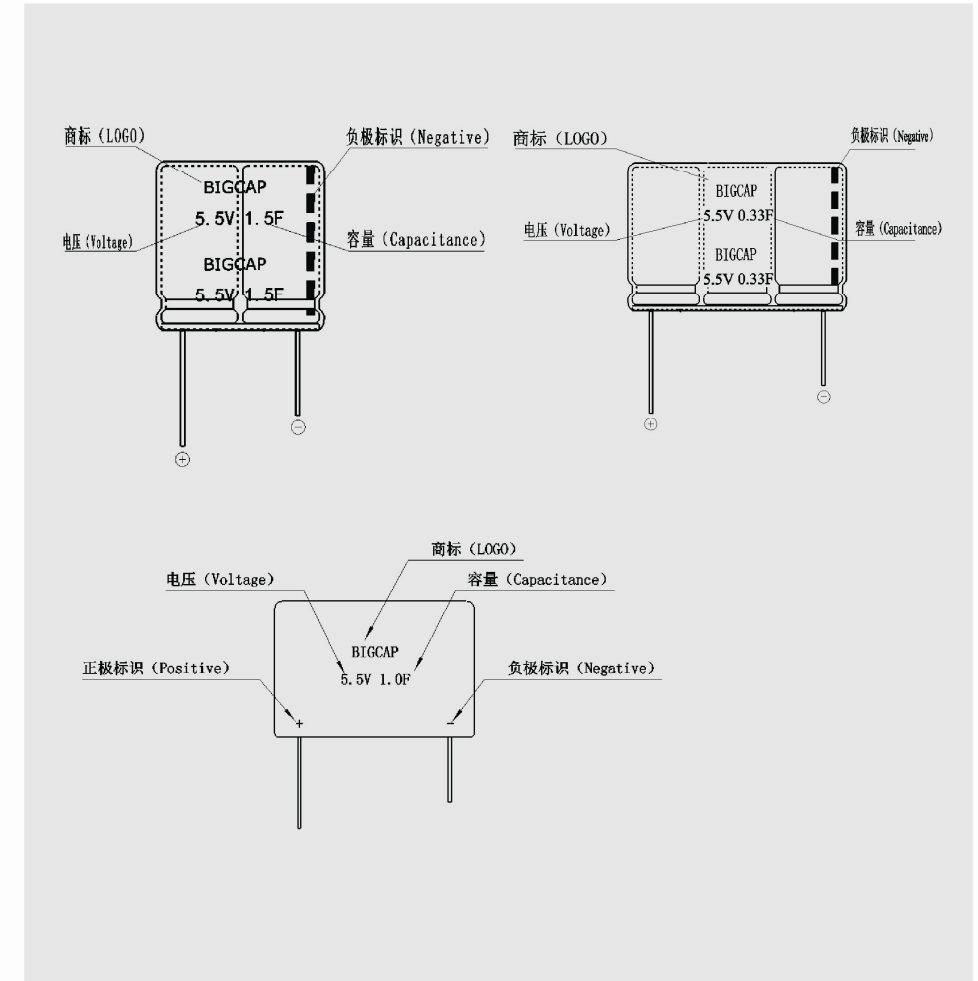
型号 Part Number	额定电压 Nominal Voltage, V dc	容量 Capacitance F	容量允许偏差 Cap.olerance	内阻 ESR, mΩ		尺寸 Size, mm φD × L	质量 Weight g	体积 Volume ml
				AC@1kHz	DC			
BMP005R5L224FCW	5.5	0.22	±20%	1000	1500	14.7 × 8.1 × 13.5	2.5	1.61
BMP005R5L334FAW	5.5	0.33	0~+40%	800	1200	18 × 9.6 × 18	4.1	3.11
BMP005R5L474FAW	5.5	0.47	0~+40%	600	900	18 × 9.6 × 18	4.4	3.11
BMP005R5L474FCW	5.5	0.47	0~+80%	400	600	18 × 9.6 × 18	4.7	3.11
BMP005R5L105FAW	5.5	1.0	±20%	280	420	18 × 9.6 × 25.5	5.2	4.41
BMP005R5L155FAW	5.5	1.5	±20%	200	300	18 × 9.6 × 25.5	6.4	4.41
BMP005R5L155FHW	5.5	1.5	±20%	160	240	22 × 11.6 × 25.5	7.2	6.51

型号 Part Number	存储能量 Max. Stored Energy, mWh	能量密度 Energy Density		功率密度 Power Density		额定电流 Nominal Current, A	最大电流 Max Current, A	72hLC Leakage Current at 72h (25°C) μA
		质量比 Wh/kg Gravimetric	体积比 Wh/L Volumetric	质量比 Wh/kg Gravimetric	体积比 Wh/L Volumetric			
BMP005R5L224FCW	0.92	0.37	0.57	2.02	3.13	0.17	0.68	<2
BMP005R5L334FAW	1.39	0.34	0.45	1.54	2.03	0.18	0.72	<2
BMP005R5L474FAW	1.97	0.45	0.63	1.91	2.70	0.3	0.92	<2
BMP005R5L474FCW	1.97	0.42	0.63	2.68	4.05	0.45	1.41	<2
BMP005R5L105FAW	4.20	0.81	0.95	3.46	4.08	0.58	2.0	<4
BMP005R5L155FAW	6.30	0.98	1.43	3.94	5.72	0.77	3.19	<6
BMP005R5L155FHW	6.30	0.88	0.97	4.38	4.84	0.77	3.19	<7

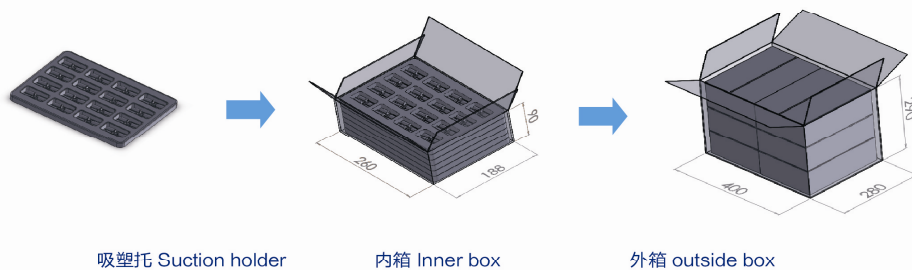
◎ 典型特性 / Typical characteristics

产品依据标准 Product Standard	依据IEC 62391-1, GB/T2693-2001, Q/BIG001-2013测试标准 According to IEC 62391-1, GB/T2693-2001, Q/BIG001-2013 test standard	
温度特性 Characteristics in Different Temperature	-40℃~+65℃ (-40℃~+70℃,at 2.7V)	与初始值比较, $ \Delta C/C \leq 30\%$, $ESR \leq 4$ 倍初始规定值 Compared with the initial value, $ \Delta C/C \leq 30\%$, $ESR \leq 4$ Initial specified value
存储温度范围 (at 0V) Storage Temperature Range (at, 0V)	-40℃~+70℃	
湿热特性 (at 25℃, 90~95%RH) Humidity Characteristics (at 25℃, 90~95%RH)	240h	与初始值比较, $ \Delta C/C \leq 30\%$, $ESR \leq 2$ 倍初始规定值, 无漏液机械损伤 Compared with the initial value, $ \Delta C/C \leq 30\%$, $ESR \leq 2$ Initial specified value, no leaked electrolyte or other mechanical damage
常温寿命 (at U0,25℃) Predicted Life at Normal Temperature (at U0,25℃)	10年	与初始值比较, $ \Delta C/C \leq 30\%$, $ESR \leq 4$ 倍初始规定值, 无漏液机械损伤 Compared with the initial value, $ \Delta C/C \leq 30\%$, $ESR \leq 4$ Initial specified value, no leaked electrolyte or other mechanical damage
高温寿命 (at U0,65℃) High Temperature Life (at U0,65℃)	1000h	
循环寿命 (at U0,25℃) Cycle Life (at U0,25℃)	500000次	
存放寿命 (at 0V,65℃) Shelf Life (at 0V,65℃)	1000h	与初始值比较, $ \Delta C/C \leq 20\%$, $ESR \leq 3$ 倍初始规定值, 无漏液机械损伤 Compared with the initial value, $ \Delta C/C \leq 20\%$, $ESR \leq 3$ Initial specified value, no leaked electrolyte or other mechanical damage
自放电特性 (电压保持特性) (at 25℃) Self discharge characteristics (voltage holding characteristics) (at 25℃)	正负极间电压大于等于4.2V/6.3V The voltage between the positive and negative electrode $\geq 4.2V/6.3V$	充电过程: 无负载, 额定电压充电24h 放置过程: 相对湿度小于60%RH, 开路放置24h Charging process: normal temperature, non-loaded, charge at rated voltage for 24h Lay aside process: temperature less than 25℃, relative humidity less than 60%RH, lay aside 24h at open circuit

◎ 标识 / Markings

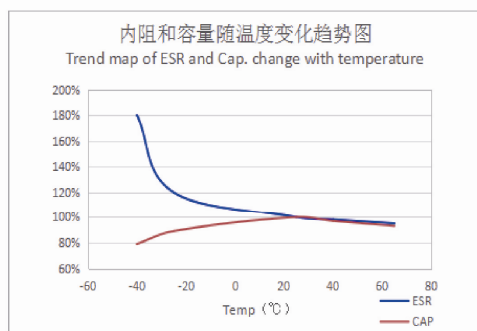


◎ 包装方式 / Packaging method

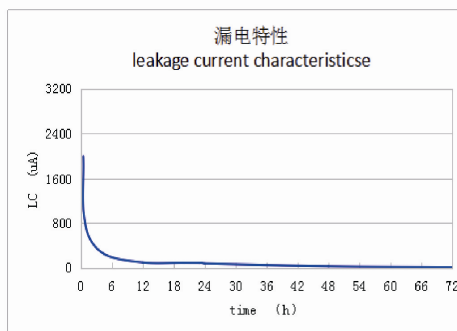


◎ 特性曲线 / characteristic curve

(1) 温度特性
Characteristics in different temperature

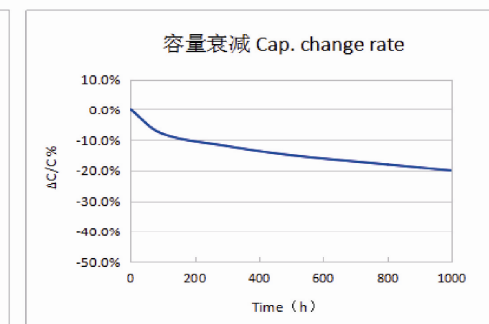
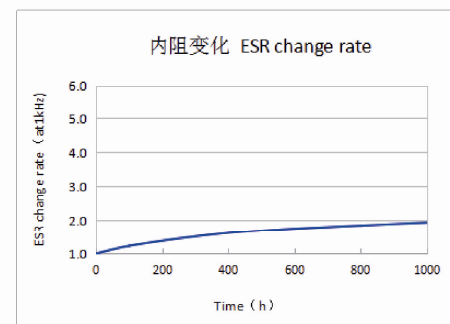


(2) 漏电流特性
LC characteristics

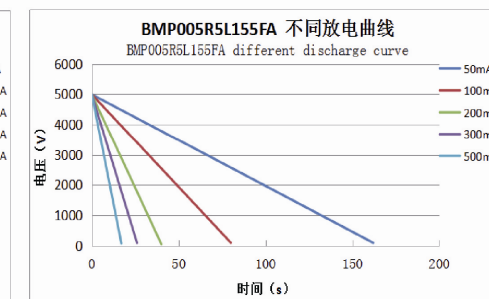
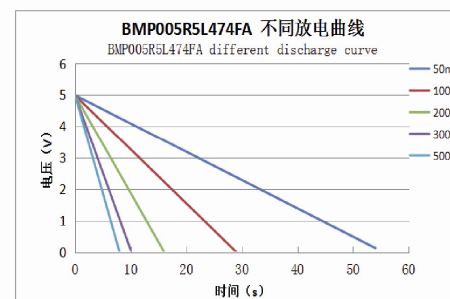


◎ 特性曲线 / characteristic curve

(3) 高温特性
High Temperature Life (at 5.5V/7.5V,65°C)



(4) 放电特性特性
LC characteristics



*以上特性曲线图均是趋势图，每一个型号的具体数据请与厂家技术支持联系

*The above characteristic curves are trend charts. Please contact the manufacturer's technical support for the specific data of each model