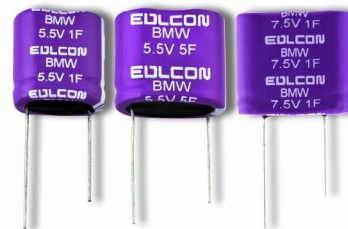


BMW 微型模组系列

BMW Small Module Series

特点 Features

- 低漏电, 长寿命 Low leakage current, long life
- 高能量、大功率 High power, high energy density
- 免维护 Maintenance-free
- 模组定制, 满足不同需求 Module customized to meet different requirement



应用 Application

- 智能仪表 Smart meters
- 智能家电 Intelligent home appliance
- 电动玩具 Electronic toy

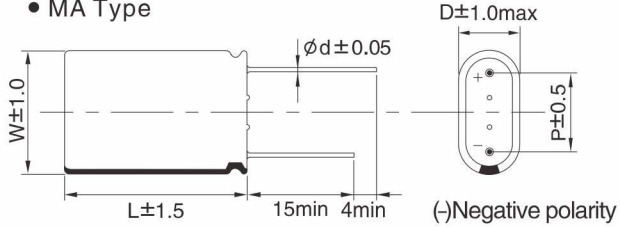
产品规格 Specifications

项目 Item	性能 Performance	
额定电压 Rated voltage	5.5 V; 7.5 V	
容量范围 Nominal cap. range	0.33 F ~ 50 F	
容量偏差 Capacitance tolerance	-20% ~ +50%; -20% ~ +20%	
工作温度 Operating temperature	-40°C ~ +70°C	
循环寿命 Cycle life characteristics	在25°C下, 以恒定电流使电容器在额定电压和半额定电压间循环充放电(>500,000次)。 Capacitors charge-discharge between rated voltage and half rated voltage under constant current at +25°C, (>500,000 cycles)	
	容量变化 Capacitance change	≤ 初始值的30%; ≤ 30% of initial value
	内阻变化 Internal resistance	≤ 初始值的2倍; ≤ 2 times of initial value
	外观变化 Appearance	无明显变化; No apparent change
高温负荷寿命 High temperature load time	温度 Temperature: +70°C 电压 Voltage: 额定电压 Rated voltage 测试时长 Duration of testing: 2,000(+48)hrs	
	容量变化 Capacitance change	≤ 初始值的30%; ≤ 30% of initial value
	内阻变化 Internal resistance	≤ 初始值的2倍; ≤ 2 times of initial value
	外观变化 Appearance	无明显变化; No apparent change
温度特性 Temperature characteristics	温度 Temperature: T ± 2°C (-40°C ≤ T ≤ +70°C) 测试时长 Duration of storage: 12hrs 无负载 Non-loaded	
	容量变化 Capacitance change	≤ 初始值的30%; ≤ 30% of initial value
	内阻变化 Internal resistance	≤ 初始值的2倍; ≤ 2 times of initial value
	外观变化 Appearance	无明显变化; No apparent change
湿热特性 Humidity characteristic	电压 Voltage: 额定电压 Rated voltage 相对湿度 Relative humidity: 90%~95% 测试时长 Duration of testing: 240hrs 温度 Temperature: 40 ± 2°C	
	容量变化 Capacitance change	≤ 初始值的30%; ≤ 30% of initial value
	内阻变化 Internal resistance	≤ 初始值的2倍; ≤ 2 times of initial value
	外观变化 Appearance	无明显变化; No apparent change
抗振性 Vibration resistance	振幅 Amplitude: 1.5mm 频率 Frequency: 10~55Hz 方向 Direction: X,Y,Z(2hrs) 测试时长 Duration of testing: 6hrs	
	容量变化 Capacitance change	≤ 初始值的30%; ≤ 30% of initial value
	内阻变化 Internal resistance	≤ 初始值的2倍; ≤ 2 times of initial value
	外观变化 Appearance	无明显变化; No apparent change

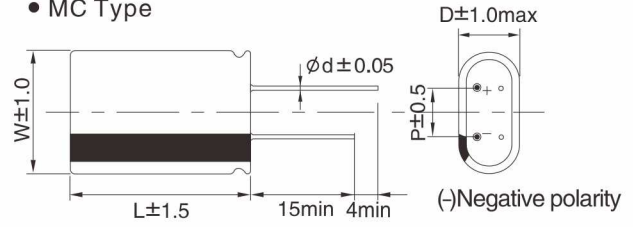
尺寸图示 Dimentions (mm)

• 5.5V-2串 / 2 cells in series connection

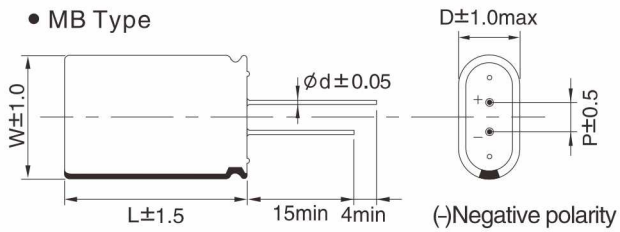
• MA Type



• MC Type



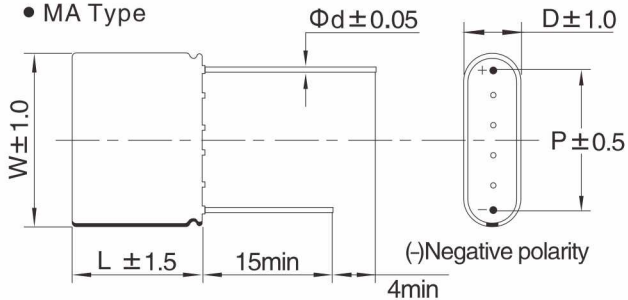
• MB Type



串联状况 connection mode	单体直径 Cell Dia.	D	W	脚距/P			Φd
				MA	MB	MC	
两串 2 in series	Φ8	8	16	11.5	5.0	8.0	0.6
	Φ10	10	20	15.5	5.5	10.0	0.6
	Φ12.5	13	25	18.0	7.5	13.0	0.6
	Φ16	16	32	24.0	8.5	16.0	0.8
	Φ18	18	36	26.0	10.5	/	0.8

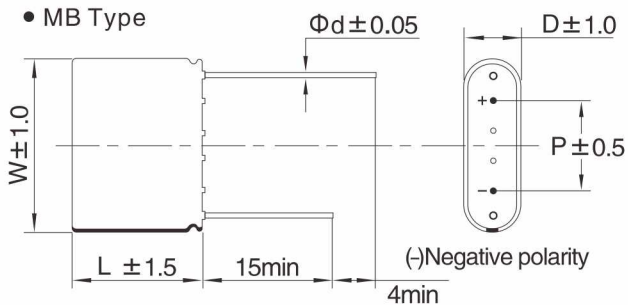
• 7.5V-3串 / 3 cells in series connection

• MA Type



串联状况 connection mode	单体直径 Cell Dia.	D	W	脚距/P			Φd
				MA	MB	MC	
三串 3 in series	Φ8	8	24	20.5	13.5	/	0.6

• MB Type



典型产品 Standard Products

• 5.5V-2串 / 2 cells in series connection

产品编码 Part number	额定电压 Rated Voltage (V)	标称容量 Rated Cap. (F)	尺寸 Size W × D × L (mm)	最大等值阻抗 Max. ESR		最大工作电流 Maximum Continuous Current(A) ($\Delta T=15^{\circ}\text{C}$)	最大峰值电流 Maximum Peak Current (A)	最大漏电流 Maximum Leakage Current (72hrs/mA)	功率密度 Power Density (W/kg)	最大能量 Maximum Energy (W.h)	能量密度 Energy Density (Wh/kg)
				ESR _{AC} (1kHz/m Ω)	ESR _{DC} IEC法 (m Ω)						
BMW5R5X474MA0814	5.5	0.47	16 × 8 × 14	320	480	0.47	1.05	0.006	3601	0.0020	0.94
BMW5R5S105MA0814	5.5	1	16 × 8 × 14	360	540	0.44	1.79	0.006	2923	0.0042	1.83
BMW5R5S105MA0818	5.5	1	16 × 8 × 18	240	360	0.61	2.02	0.010	4201	0.0042	1.75
BMW5R5S155MA0822	5.5	1.5	16 × 8 × 22	200	300	0.74	2.84	0.012	4172	0.0063	2.17
BMW5R5S255MA0827	5.5	2.5	16 × 8 × 27	180	270	0.87	4.10	0.015	3447	0.0105	2.69
BMW5R5S255MA1018	5.5	2.5	20 × 10 × 18	180	270	0.80	4.10	0.015	3056	0.0105	2.39
BMW5R5S255MA1022	5.5	2.5	20 × 10 × 22	150	225	0.97	4.40	0.015	3361	0.0105	2.19
BMW5R5M355MA1022	5.5	3.5	20 × 10 × 22	160	240	0.94	5.23	0.020	3151	0.0147	3.06
BMW5R5M355MA1027	5.5	3.5	20 × 10 × 27	120	180	1.20	5.90	0.020	3667	0.0147	2.67
BMW5R5M505MA1027	5.5	5	20 × 10 × 27	130	195	1.15	6.96	0.030	3385	0.0210	3.82
BMW5R5M505MA1032	5.5	5	20 × 10 × 32	90	135	1.51	8.21	0.030	4074	0.0210	3.18
BMW5R5M505MA1B22	5.5	5	25 × 13 × 22	90	135	1.42	8.21	0.030	3634	0.0210	2.84
BMW5R5M655MA1B27	5.5	6	25 × 13 × 27	80	120	1.66	9.59	0.040	3929	0.0252	3.27
BMW5R5M755MA1B32	5.5	7.5	25 × 13 × 32	70	105	1.93	11.54	0.052	3841	0.0315	3.50
BMW5R5M106MA1B32	5.5	10	25 × 13 × 32	80	120	1.80	12.50	0.055	3361	0.0420	4.67
BMW5R5M106MA1B37	5.5	10	25 × 13 × 37	60	90	2.23	14.47	0.056	3507	0.0420	3.65
BMW5R5M1B6MA1627	5.5	12.5	32 × 16 × 27	50	75	2.41	17.74	0.068	3103	0.0525	3.37
BMW5R5M156MA1632	5.5	15	32 × 16 × 32	40	60	2.92	21.71	0.075	3517	0.0630	3.66
BMW5R5M206MA1837	5.5	20	36 × 18 × 37	36	54	3.52	26.44	0.088	2988	0.0840	3.73
BMW5R5M256MA1842	5.5	25	36 × 18 × 42	32	48	3.96	31.25	0.105	2875	0.1050	3.99
BMW5R5M306MA1842	5.5	30	36 × 18 × 42	30	45	4.09	35.11	0.145	2881	0.1260	4.50
BMW5R5M506MA1862	5.5	50	36 × 18 × 62	26	39	5.30	46.61	0.240	2165	0.2101	4.89

• 7.5V-3串 / 3 cells in series connection

产品编码 Part number	额定电压 Rated Voltage (V)	标称容量 Rated Cap. (F)	尺寸 Size W × D × L (mm)	最大等值阻抗 Max. ESR		最大工作电流 Maximum Continuous Current(A) ($\Delta T=15^{\circ}\text{C}$)	最大峰值电流 Maximum Peak Current (A)	最大漏电流 Maximum Leakage Current (72hrs/mA)	功率密度 Power Density (W/kg)	最大能量 Maximum Energy (W.h)	能量密度 Energy Density (Wh/kg)
				ESR _{AC} (1kHz/m Ω)	ESR _{DC} IEC法 (m Ω)						
BMW7R5S334MB0814	7.5	0.33	24 × 8 × 14	480	720	0.38	1.00	0.006	3125	0.0026	0.86
BMW7R5S604MB0818	7.5	0.6	24 × 8 × 18	360	540	0.50	1.70	0.010	3472	0.0047	1.30
BMW7R5S105MB0822	7.5	1	24 × 8 × 22	300	450	0.61	2.59	0.012	3488	0.0078	1.82

单击下面可查看定价，库存，交付和生命周期等信息

[>>BERYL\(绿宝石\)](#)