

PB series

■ 特性 Features

- 长寿命品 Long-life Products
- 105°C 5000~10000Hrs

■ 仕样 Specification

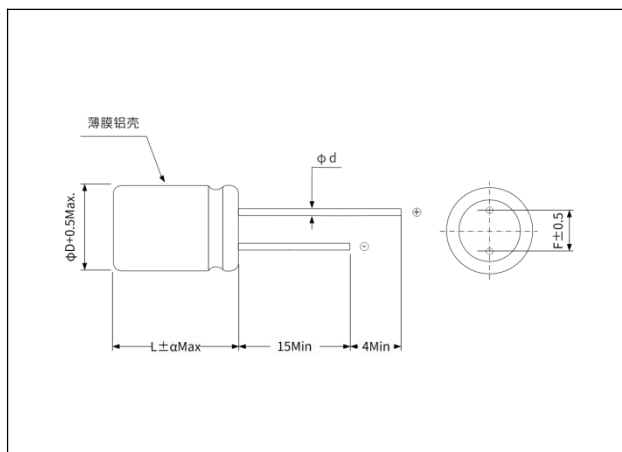


项目 Item	条件 Condition	性能 Performance
使用温度范围 Operating Temperature Range	-	-55°C~+105°C
额定电压范围 Rated Voltage Range	-	6.3~250V
额定静电容量范围 Rated Capacitance Range	-	1~2700μF
额定静电容量容许差 Capacitance Tolerance	120Hz, 20°C	±20%
漏电流(LC) Leakage Current(LC)	施加额定电压 2 分钟后 After applying rated voltage for 2 minutes	$I \leq 0.2CV$ 或 $500\mu A$ (以较大值为准) $I \leq 0.2CV$ or $500\mu A$ (whichever is greater)
耐久性 Endurance	在 105°C环境下, 施加额定工作电压并叠加纹波电流, 恢复到 20°C后, 电容器应满足如下要求 Under 105°C, apply rated voltage and superimpose ripple current, then return to 20°C, The capacitors shall meet the following requirements.	
	静电容量变化率 Capacitance Change	初始值的±20%以内 Within ±20% of initial value
	漏电流 Leakage Current	初始规定值以内 Within initial specified value
	等效串联电阻 ESR	初始标准值的 150%以下 $\leq 150\%$ of initial standard value
	损失角正切率(tan δ) Dissipation Factor(tan δ)	初始标准值的 150%以下 $\leq 150\%$ of initial standard value
耐湿性 Moisture Resistance	存放在 60°C, 湿度 90~95%, 1000H Stored at 60°C, RH90~95%, 1000H	
	静电容量变化率 Capacitance Change	初始值的±20%以内 Within ±20% of initial value
	漏电流 Leakage Current	初始规定值以内 Within initial specified value
	等效串联电阻 ESR	初始标准值的 150%以下 $\leq 150\%$ of initial standard value
	损失角正切值(tan δ) Dissipation Factor(tan δ)	初始标准值的 150%以下 $\leq 150\%$ of initial standard value

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尺寸图 Dimensions

(Unit:mm)

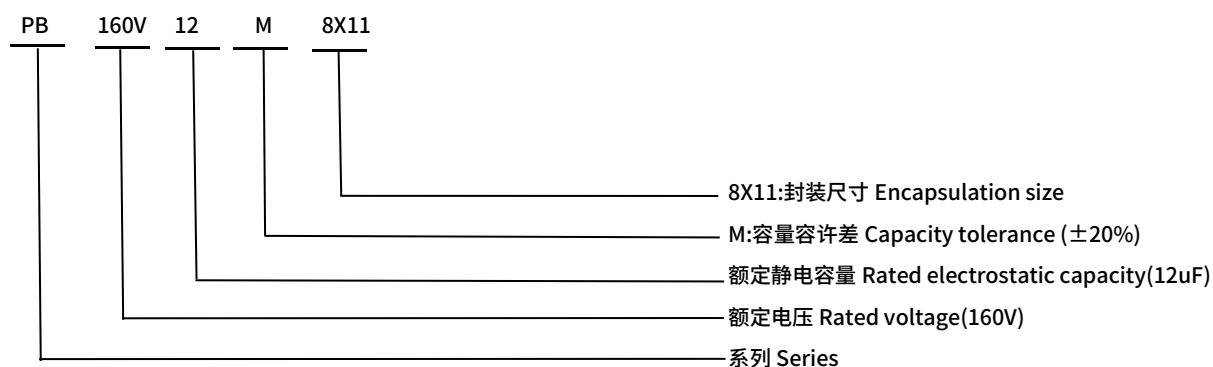


$\phi D \times L$	$\phi D + 0.5 \text{ max}$	α	$F \pm 0.5$	$\phi d \pm 0.05$
5X5-18	5	1	2	0.5
5.5X5-18	5.5	1	2.5	0.5
6.3X5-9	6.3	1	2.5	0.5/0.6
6.3X11-20	6.3	1	2.5	0.6
8X7P-15P	8	1	2.5	0.6
8X7-20	8	1	3.5	0.6
10X10-20	10	1	5	0.6

频率修正系数 Multiplier for ripple current vs frequency

频率 Frequency	$120\text{Hz} \leq \text{Freq.} < 1\text{KHz}$	$1\text{KHz} \leq \text{Freq.} < 10\text{KHz}$	$10\text{KHz} \leq \text{Freq.} < 100\text{KHz}$	$100\text{KHz} \leq \text{Freq.} < 300\text{KHz}$
纹波修正系数 Coefficient	0.05	0.3	0.7	1.0

品号编码体系 Part Number Coding System (Example: 160V12 μ F)



注释: 型号中 R 表示小数点, 如 4R7 表示 4.7 μ F

Note: "R" in the model number denotes a decimal point (e.g., 4R7 = 4.7 μ F)

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■ 电气特性 Electrical Characteristics

额定电压 Rated Voltage (V)	额定静电容量 Rated Capacitance (μ F)	漏电流 Leakage Current (μ A,2min)	损失角正切值 Dissipation Factor (120Hz,20°C)	等效串联电阻 ESR (m Ω ,100KHz)	额定纹波电流 Rated Ripple Current (mA,105°C,100KHz)	尺寸 Dimensions Φ DXL(mm)	品号 Part Number
6.3	1000	1260	6	10	4500	6.3X12	PB6.3V1000M6X12
	1500	1890	6	10	4700	8X11.5	PB6.3V1500M8X11
	1800	2268	6	10	5000	10X12.5	PB6.3V1800M10X12
10	330	660	8	15	4300	8X8	PB10V330M8X8
	470	940	8	13	4500	8X11.5	PB10V470M8X11
	680	1000	8	13	4500	8X11.5	PB10V680M8X11
	1000	1000	8	13	4900	10X11.5	PB10V1000M10X11
16	220	704	8	20	3500	6.3X8	PB16V220M6X8
	220	704	8	16	4300	8X8	PB16V220M8X8
	270	864	8	16	4300	8X8	PB16V270M8X8
	270	864	8	16	4500	8X11.5	PB16V270M8X11
	330	1000	8	16	4100	6X11	PB16V330M6X11
	330	1000	8	16	4500	8X11.5	PB16V330M8X11
	470	1000	8	16	4100	6.3X11.5	PB16V470M6X11
	470	1000	8	16	4500	8X11.5	PB16V470M8X11
	560	1000	8	16	4500	6.3X14	PB16V560M6X14
	680	1000	8	14	4900	10X12.5	PB16V680M10X12
	820	1000	8	16	4500	8X12.5	PB16V820M8X12
	820	1000	8	14	4900	10X12.5	PB16V820M10X12
	1000	1000	8	16	4500	8X15	PB16V1000M8X15
	1000	1000	8	16	4800	10X11.5	PB16V1000M10X11
	1000	1000	8	14	5100	10X15	PB16V1000M10X15
	2200	1000	8	14	5100	10X15	PB16V2200M10X15
25	100	500	8	25	2900	6.3X8	PB25V100M6X8
	220	1000	8	20	3500	6.3X12	PB25V220M6X12
	220	1000	8	16	4100	8X11	PB25V220M8X11
	270	1000	8	25	3500	6.3X12	PB25V270M6X12
	330	1000	8	16	4500	8X11.5	PB25V330M8X11
	470	1000	8	16	4100	8X11	PB25V470M8X11
	560	1000	8	14	4700	10X12.5	PB25V560M10X12
	680	1000	8	14	4900	10X15	PB25V680M10X15

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额定电压 Rated Voltage (V)	额定静电容量 Rated Capacitance (μ F)	漏电流 Leakage Current (μ A,2min)	损失角正切值 Dissipation Factor (120Hz,20°C)	等效串联电阻 ESR (m Ω ,100KHz)	额定纹波电流 Rated Ripple Current (mA,105°C,100KHz)	尺寸 Dimensions Φ DXL(mm)	品号 Part Number
25	820	1000	10	16	4100	8X15	PB25V820M8X15
	1000	1000	8	16	4500	10X15	PB25V1000M10X15
	1000	1000	8	16	4500	8X17	PB25V1000M8X17
35	100	700	8	28	2600	6.3X8	PB35V100M6X8
	220	1000	8	18	2980	6X12	PB35V220M6X12
	330	1000	8	14	4700	10X12.5	PB35V330M10X12
	470	1000	8	16	3800	8X15	PB35V470M8X15
	470	1000	8	14	4900	10X15	PB35V470M10X15
	680	1000	8	16	4100	10X15	PB35V680M10X15
160	4.7	500	12	130	1000	8X11.5	PB160V4R7M8X11
	12	500	12	130	1000	8X11.5	PB160V12M8X11
200	1	500	15	300	600	8X11.5	PB200V1M8X11
	2.2	500	15	300	600	10X12.5	PB200V2R2M10X12
250	1	500	15	300	600	8X11.5	PB250V1M8X11
	2.2	500	15	300	600	10X12.5	PB250V2R2M10X12