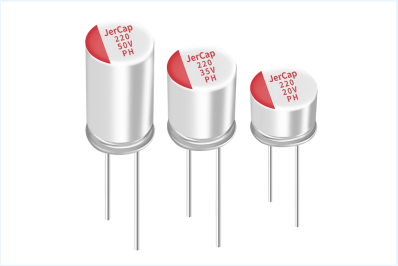
PH series



■ 特性 Features

- 高温品 high temperature product
- 125℃ 2000~5000Hrs

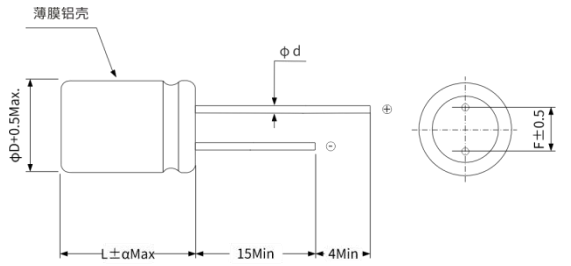
■ 仕样 Specifications

项目 Item	条件 Condition	性能 Performance
使用温度范围 Operating Temperature Range	-	-55℃~+125℃
额定电压范围 Rated Voltage Range	-	2.5~100V
额定静电容量范围 Rated Capacitance Range	-	10~3300μF
额定静电容量容许差 Capacitance Tolerance	120Hz，20℃	±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≤0.2CV 或 500μA（以较大值为准） I≤0.2CV or 500μA (whichever is greater)
耐久性 Endurance 125℃,2000~5000h,at rated voltage	在 125℃环境下，施加额定工作电压并叠加纹波电流，恢复到 20℃后，电容器应满足如下要求 Under 125℃, apply rated voltage and superimpose ripple current, then return to 20℃,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 ≤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 ≤150% of initial standard value
耐湿性 Moisture Resistance Stored at 60℃,RH90~95%,1000H	存放在 60℃，湿度 90~95%，1000H Stored at 60℃，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 ≤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 ≤150% of initial standard value

PH series

■ 尺寸图 Dimensions

(Unit:mm)

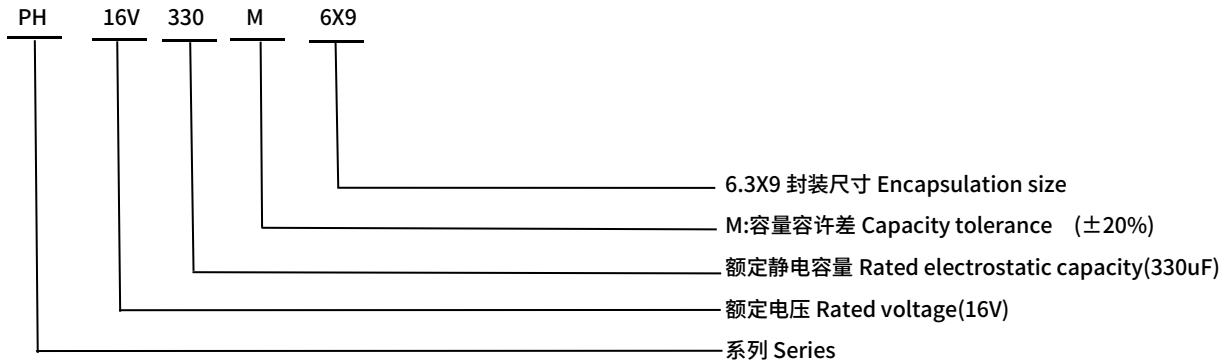


ØD×L	ØD+0.5 max	α	F±0.5	Ød±0.05
5×5-18	5	1	2	0.5
5.5×5-18	5.5	1	2.5	0.5
6.3×5-9	6.3	1	2.5	0.5/0.6
6.3×11-20	6.3	1	2.5	0.6
8×7P-15P	8	1	2.5	0.6
8×7-20	8	1	3.5	0.6
10×10-20	10	1	5	0.6

■ 频率修正系数 Multiplier for ripple current vs frequency

频率 Frequency	120Hz≤Fre.＜1KHz	1KHz≤Fre.＜10KHz	10KHz≤Fre.＜100KHz	100KHz≤Fre.＜300KHz
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：16V 330μF）



注释：型号中 R 表示小数点，如 4R7 表示 4.7μF

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

PH series

■ 电气特性 Electrical Characteristics

额定电压 Rated Voltage (V)	额定静电容量 Rated Capacitance (μF)	漏电流 Leakage Current (μA,2min)	损失角正切值 Dissipation Factor (120Hz,20°C)	等效串联电阻 ESR (mΩ,100KHz)	额定纹波电流 Rated Ripple Current (mA,125°C,100KHz)	尺寸 Dimensions ΦDXL(mm)	品号 Part Number
6.3	820	1000	12	12	1600	8X11.5	PH6.3V820M8X11
	1200	1000	12	12	1600	8X11.5	PH6.3V1200M8X11
	1500	1000	12	12	1600	8X11.5	PH6.3V1500M8X11
10	470	940	12	14	1600	8X11.5	PH10V470M8X11
	560	1000	12	14	1400	8X8	PH10V560M8X8
	680	1000	12	14	1600	8X11.5	PH10V680M8X11
	1000	1000	12	14	1600	8X11.5	PH10V1000M8X11
16	47	300	8	28	1000	5X7	PH16V47M5X7
	220	704	12	16	1400	6.3X11	PH16V220M6X11
	330	1000	8	20	1200	6.3X9	PH16V330M6X9
	470	1000	12	16	1400	8X8	PH16V470M8X8
	560	1000	12	16	1400	6.3X12	PH16V560M6X12
	680	1000	8	16	1400	6.3X11.5	PH16V680M6X11
	680	1000	12	16	1600	8X11.5	PH16V680M8X11
	820	1000	8	14	2000	6.3X14	PH16V820M6X14
	1000	1000	8	14	2000	10X12.5	PH16V1000M10X12
	1500	1000	8	14	2000	8X17	PH16V1500M8X17
	2200	1000	8	14	2000	10X17	PH16V2200M10X17
25	10	300	8	40	900	5X8	PH25V10M5X8
	100	500	8	30	1100	6X7	PH25V100M6X7
	220	1000	8	16	1100	5X11	PH25V220M5X11
	330	1000	8	16	1400	6.3X12	PH25V330M6X12
	470	1000	8	16	1600	8X11.5	PH25V470M8X11
	560	1000	12	20	1600	8X11.5	PH25V560M8X11
	680	1000	8	16	1400	8X15	PH25V680M8X15
	680	1000	8	16	1400	6.3X16	PH25V680M6X16
	820	1000	8	16	1600	6.3X16	PH25V820M6X16
	1000	1000	8	16	2000	10X15	PH25V1000M10X15
	1200	1000	8	16	2000	10X15	PH25V1200M10X15
	1500	1000	8	16	2000	10X17	PH25V1500M10X17
	2200	1000	8	16	2000	10X17	PH25V2200M10X17

PH series

额定电压 Rated Voltage (V)	额定静电容量 Rated Capacitance (μF)	漏电流 Leakage Current (μA,2min)	损失角正切值 Dissipation Factor (120Hz,20°C)	等效串联电阻 ESR (mΩ,100KHz)	额定纹波电流 Rated Ripple Current (mA,125°C,100KHz)	尺寸 Dimensions ΦDXL(mm)	品号 Part Number
35	100	700	8	20	1100	6.3X9	PH35V100M6X9
	100	700	12	20	1400	8X8	PH35V100M8X8
	220	1000	8	18	1600	8X11.5	PH35V220M8X11
	330	1000	8	16	1600	8X12.5	PH35V330M8X12
	330	1000	12	16	2000	10X12.5	PH35V330M10X12
	470	1000	8	16	2000	10X12.5	PH35V470M10X12
	680	1000	8	16	2000	10X15	PH35V680M10X15
	820	1000	12	16	2000	10X15	PH35V820M10X15
	1000	1000	8	16	2000	10X17	PH35V1000M10X17
50	68	680	12	28	1100	6.3X9	PH50V68M6X9
	100	1000	8	25	1600	8X11.5	PH50V100M8X11
	220	1000	12	20	2000	8X15	PH50V220M8X15
	220	1000	8	18	2000	10X12.5	PH50V220M10X12
	470	1000	12	16	2000	10X17	PH50V470M10X17
63	82	1000	12	28	1600	8X11.5	PH63V82M8X11
	100	1000	12	20	2000	10X12.5	PH63V100M10X12
80	22	500	12	30	1400	8X8	PH80V22M8X8
100	47	940	12	30	1600	8X11.5	PH100V47M8X11