

PE 高分子导电型(标准品)——插件型

PE Series Conductive polymer type(Standard type)-----Radial lead type

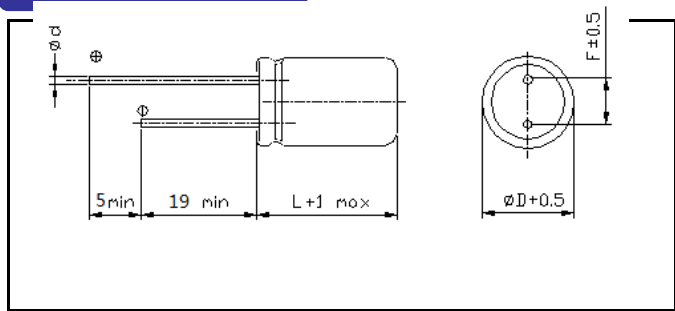
## 特点 Features

- 可适于无铅焊  
Lead free-flow is supported
- ROHS 指令已对应完毕。Adapted to the ROHS directive。

## 主要技术性能 Specifications

项目 Items	特性 Characteristics		
工作温度范围 Operating Temperature Range	-55℃ ~+105℃		
额定电压范围 Rated Voltage Range	2.5V ~2 5V		
标称容量范围 Nominal Capacitance Range	3.3 ~ 2200μF		
标称容量允许偏差 Nominal Capacitance Tolerance	±20% (20℃, 120Hz)		
漏电流 Leakage Current	≤表 1 规定值 Less than or equal to the value of table1 2 分钟 at 20℃, after 2 minutes		
损耗角正切 (tgδ) Dissipation Factor (Max)	20℃, 120Hz	直径	Φ4~Φ5      Φ6.3~Φ10
		tgδ	0.10      0.08
ESR	≤表 1 规定值 Less than or equal to the value of table1		
高低温特性比 Characteristics of impedance ratio at high temp. and low temp.	要求在 100KHZ 20℃ Based the value at 100KHZ. +20℃	-55℃	Z/Z20℃      0.75 to 1.25
		+105℃	Z/Z20℃      0.75 to 1.25
耐久性 Load Life	+105℃施加额定电压 2000 小时后, 电容器应满足以下要求: After 2000 hours' application of rated voltage at 105℃, the capacitor shall meet the following requirement:		
	容量变化率 Capacitance Change	±20%初始值以内 Within ±20% of the initial value (16V: within ±25% of the initial value)	
	损耗角正切 Dissipation Factor	≤ 150%初始规定值 Not more than 150% of the initial specified value	
	阻抗 Equivalent Series Resistance	≤ 150%初始规定值 Not more than 150% of the initial specified value	
	漏电流 Leakage Current	≤ 初始规定值 Not more than the initial specified value	
稳态湿热 Damp heat(Steady state)	60℃, 90~95% RH, 不加电压 1000 小时      60℃, 90~95% RH, 1000 hours, No-applied voltage.		
	容量变化率 Capacitance Change	±20%初始值以内 Within ±20% of the initial value (16V: within ±25% of the initial value)	
	损耗角正切 Dissipation Factor	≤ 150%初始规定值 Not more than 150% of the initial specified value	
	阻抗 Equivalent Series Resistance	≤ 150%初始规定值 Not more than 150% of the initial specified value	
	漏电流 Leakage Current	≤ 初始规定值 Not more than the initial specified value	
耐焊接热 Resistance to Soldering Heat	(VPS) (260℃ X 10s)		
	容量变化率 Capacitance Change	±10%初始值以内 Within ±10% of the initial value (16V 以上: within ±15% of the initial value)	
	损耗角正切 Dissipation Factor	≤ 初始规定值 Not more than the initial specified value	
	阻抗 Equivalent Series Resistance	≤ 初始规定值 Not more than the initial specified value	
	漏电流 Leakage Current	≤ 初始规定值 Not more than the initial specified value	

尺寸图 Dimensions



单位 Unit:mm

D	4	5	6	8	10
F	1.5	2.0	2.5	3.5	5
d	0.45	0.5	0.6	0.6	0.6

尺寸表 Size list

■称电容量、额定电压、额定纹波电流与尺寸对应表 Nominal capacitance, rated voltage, rated ripple current and case size table

Size Code	UR (V)	CR (μF)	ESR (mΩ max.)	Ripple 100KHZ (mArms)	Leakage current(μA) (max.)	Size Code	UR (V)	CR (μF)	ESR (mΩ max.)	Ripple 100KHZ (mArms)	Leakage current(μA) (max.)	
4×5.4	16	3.3	100	660	200	6.3×5.4	4	330	24	2800	264	
	10	4.7	100	670	200		2.5	220	24	2800	200	
	10	6.8	100	670	200		2.5	330	24	2800	200	
	10	10	100	700	200		2.5	390	24	2800	200	
	10	15	100	740	200	6.3×9	16	220	14	3100	704	
	6.3	22	100	740	200		16	270	14	3100	864	
	4	33	100	740	200		6.3	470	12	3100	592	
5×5.4	20	10	100	1100	200		6.3	560	12	3100	706	
	16	15	100	1100	200		4	470	12	3900	376	
	16	22	100	1100	200		4	560	12	3900	448	
	10	33	100	1200	200		2.5	470	12	3900	235	
	6.3	47	100	1200	200	2.5	560	12	3900	280		
	4	39	100	1100	200	2.5	820	12	3900	410		
	4	68	100	1400	200	2.5	1000	12	3900	500		
5×8	6.3	270	24	2200	340	8×7	25	10	30	2700	200	
5×11	16	100	35	2200	320		20	33	30	2700	200	
6.3×5.4	25	6.8	30	1400	200		20	47	30	2700	200	
	25	27	30	2100	200		16	56	18	3100	200	
	25	33	30	2100	200		16	82	18	3100	262	
	20	22	30	2200	200		16	270	18	3100	864	
	20	27	30	2200	200		10	120	18	3100	240	
	16	39	30	1400	200		10	150	18	3100	300	
	16	47	30	2100	200		6.3	220	12	3100	277	
	16	68	30	2100	200		4	150	12	3100	200	
	16	82	30	2100	262		4	330	12	3900	264	
	16	100	30	2100	320		4	470	12	3900	376	
	10	47	24	1400	200		4	560	12	3900	448	
	10	56	24	1400	200		2.5	470	12	3900	235	
	10	120	24	2100	240		2.5	560	12	3900	280	
	6.3	82	24	1400	200		2.5	820	12	3900	410	
	6.3	100	24	1500	200		2.5	1000	12	3900	500	
	6.3	120	24	2500	200		8×9	16	270	12	4700	864
	6.3	220	24	2700	277			16	330	12	4700	1056
	4	150	24	1700	200			6.3	470	12	4700	592
4	220	24	2100	200	6.3	560		12	5100	706		

Size Code	UR (V)	CR (μF)	ESR (mΩ max.)	Ripple 100KHZ (mArms)	Leakage current(μA) (max.)	Size Code	UR (V)	CR (μF)	ESR (mΩ max.)	Ripple 100KHZ (mArms)	Leakage current(μA) (max.)
8×9	6.3	820	12	5100	1033	10×10	25	56	30	3100	280
	4	470	12	5300	376		25	100	30	3100	500
	4	560	12	5400	448		25	150	30	3900	750
	4	820	12	5400	656		20	150	30	3900	600
	4	1000	12	5400	800		20	220	30	3900	880
	2.5	470	12	5400	235		20	270	30	3900	1080
	2.5	560	12	5400	280		20	330	30	3900	1320
	2.5	820	12	5400	410		20	390	30	3900	1560
	2.5	1000	12	5400	500		16	330	14	4700	1056
	2.5	1200	12	5400	600		16	390	14	4700	1248
8×10	25	33	30	2700	200	16	470	14	4700	1504	
	20	100	30	3100	400	10	470	14	4700	940	
	16	180	14	4700	576	10	560	14	5400	1120	
	16	220	14	4700	704	6.3	820	12	5400	1033	
	16	270	14	4700	864	4	1000	12	5400	800	
	16	330	14	4700	1056	4	1200	12	5400	960	
	10	330	14	4700	660	2.5	1000	12	5400	500	
	6.3	470	12	5100	592	2.5	1200	12	5400	600	
	6.3	560	12	5400	706	2.5	1500	12	5400	750	
	6.3	820	12	5400	1033	25	150	30	3100	750	
	4	560	12	5400	448	25	220	30	3100	1100	
	4	680	12	5400	544	20	150	30	3100	600	
	4	820	12	5400	656	20	220	30	3100	880	
	4	1000	12	5400	800	20	270	30	3100	1080	
8×12	25	100	30	3100	500	10×12	20	330	30	3100	1320
	20	100	30	3100	400		20	390	30	3100	1560
	20	150	30	3100	600		20	470	30	3100	1880
	16	220	14	4700	704		16	330	14	4700	1056
	16	270	14	4700	864		16	390	14	4700	1248
	16	330	14	4700	1056		16	470	14	4700	1504
	16	390	14	4700	1248		16	560	14	4700	1792
	10	330	14	4700	660		10	560	14	4700	1120
	10	390	14	4700	780		10	680	14	4700	1360
	10	470	14	4700	940		6.3	820	12	5400	1033
	6.3	820	12	5400	1033		6.3	1000	12	5400	1260
	6.3	1000	12	5400	1260		4	1000	12	5400	800
	2.5	820	12	5400	410		4	1200	12	5400	960
	2.5	1000	12	5400	500		4	1500	12	5400	1200
2.5	1200	12	5400	600	2.5	1000	12	5400	500		
2.5	1500	12	5400	750	2.5	1200	12	5400	600		
					2.5	1500	12	5400	750		
					2.5	2200	12	5400	1100		

ESR(100KHZ to 300KHZ)