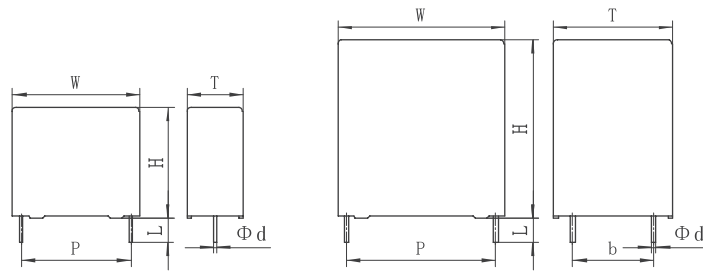


WRC PCB用谐振电容器 Resonant capacitor for PCB

外形图 Outline Drawing



单位 Unit: mm

特点 Features

- 双面金属化结构，具有自愈性
- 损耗小，内部温升低
- 阻燃塑料外壳和树脂封装 (UL94V-0)
- Double sided metallized construction, self-healing property
- Low loss and small inherent temperature rise
- Sealed with flame-retardant plastic case and resin (UL94 V-0)

主要用途 Typical Applications

- 广泛应用于电力电子中的串/并联谐振，尤其适用于逆变焊机、电源等
- Widely used in power electronic devices in series or parallel resonant circuit, especially suitable for circuit of welding and power supplies

技术要求 Specifications

引用标准 Reference Standard	GB/T 17702 (IEC 61071)
气候类别 Climatic Category	40/105/56
额定温度 Rated Temperature	85℃
工作温度 Operating temperature	-40~105℃
额定电压 U_N Normal Voltage	630/850/1000/1200/1600/2000/2500/3000Vdc 420/450/500/600/650/700/725/750Vac
容量偏差 Capacitance Tolerance	±5% (J) ±10% (K)
耐电压 Voltage Proof	1.5 U_N (10s)
绝缘电阻 R_{ins} Insulation Resistance	$C_N \leq 0.33 \mu F: \geq 15000 M\Omega$ $C_N > 0.33 \mu F: \geq 5000s$ (20℃ 100Vdc, 1min)
损耗角正切 $\tan \delta$ Dissipation Factor	≤ 0.0005 (1kHz, 20℃)
预期寿命 t_{EL} Expected Lifetime	100,000h@ $U_N, \theta_{rs}=70^\circ C$

■ 外形尺寸 Dimensions (mm)

630/700Vdc (420Vac)											
C _N (μF)	W (mm)	H (mm)	T (mm)	P (mm)	b (mm)	d (mm)	L _s (nH)	dV/dt (V/μs)	ESR @100kHz (mΩ)	I _{max} (A)	备注
0.68	37	25	15	32.5	5.1	1.0	23	900	5	8	
1.0	37	30	16	32.5	5.1	1.0	23	900	5	11	
1.5	37	34	20	32.5	10.2	1.0	23	900	4.5	17	
2.2	42	40	20	37.5	10.2	1.2	29	600	4	18	
3.3	42	44	24	37.5	10.2	1.2	29	600	3.5	20	
4.7	42	45	30	37.5	20.3	1.2	29	600	3.5	23	
7	57	45	30	52.5	20.3	1.2	33	360	2.5	25	
9	57	50	35	52.5	20.3	1.2	33	360	2.5	28	

850Vdc (450Vac)											
C _N (μF)	W (mm)	H (mm)	T (mm)	P (mm)	b (mm)	d (mm)	L _s (nH)	dV/dt (V/μs)	ESR @100kHz (mΩ)	I _{max} (A)	备注
0.47	37	25	15	32.5	5.1	1.0	23	1200	5	8	
0.68	37	30	16	32.5	5.1	1.0	23	1200	5	11	
1.0	37	34	20	32.5	10.2	1.0	23	1200	5	13	
1.5	37	34	20	32.5	10.2	1.0	23	1200	5	18	
1.5	42	40	20	37.5	10.2	1.2	29	750	4.5	18	
2.2	42	40	20	37.5	10.2	1.2	29	750	4.5	19	
3.3	42	45	30	37.5	20.3	1.2	29	750	4.5	21	
4.7	57	45	30	52.5	20.3	1.2	33	450	4	24	
6	57	50	35	52.5	20.3	1.2	33	450	4	26	

1000Vdc (500Vac)											
C _N (μF)	W (mm)	H (mm)	T (mm)	P (mm)	b (mm)	d (mm)	L _s (nH)	dV/dt (V/μs)	ESR @100kHz (mΩ)	I _{max} (A)	备注
0.47	37	25	15	32.5	5.1	1.0	23	1300	5	8	
0.68	37	30	16	32.5	5.1	1.0	23	1300	5	9	
1.0	37	34	20	32.5	10.2	1.0	23	1300	4.5	14	
1.5	42	40	20	37.5	10.2	1.2	29	850	4.5	16	
2.2	42	44	24	37.5	10.2	1.2	29	850	4	20	
3.0	42	45	30	37.5	20.3	1.2	29	850	4	21	
3.3	57	45	30	52.5	20.3	1.2	33	500	4	20	
4.7	57	50	35	52.5	20.3	1.2	33	500	4	22	

1200Vdc (600Vac)											
C _N (μF)	W (mm)	H (mm)	T (mm)	P (mm)	b (mm)	d (mm)	L _s (nH)	dV/dt (V/μs)	ESR @100kHz (mΩ)	I _{max} (A)	备注
0.33	37	25	15	32.5	5.1	1.0	23	1500	5.5	8	
0.47	37	30	16	32.5	5.1	1.0	23	1500	5.5	10	
0.68	37	34	20	32.5	10*2	1.0	23	1500	5.5	11	
1.0	42	40	20	37.5	10.2	1.2	29	950	5	15	
1.5	42	44	24	37.5	10.2	1.2	29	950	4.5	17	
2.0	42	45	30	37.5	20.3	1.2	29	950	4.5	18	
2.2	57	45	30	52.5	20.3	1.2	33	600	4	18	
3.3	57	50	35	52.5	20.3	1.2	33	600	4	21	

■ 外形尺寸 Dimensions (mm)

1600Vdc (650Vac)											
C _N (μF)	W (mm)	H (mm)	T (mm)	P (mm)	b (mm)	d (mm)	L _s (nH)	dV/dt (V/μs)	ESR @100kHz (mΩ)	I _{max} (A)	备注
0.22	37	25	15	32.5	5.1	1.0	23	1900	6.5	7	
0.33	37	30	16	32.5	5.1	1.0	23	1900	6.5	9	
0.47	37	34	20	32.5	10.2	1.0	23	1900	6	13	
0.68	42	40	20	37.5	10.2	1.2	29	1250	4	16	
0.82	42	44	24	37.5	10.2	1.2	29	1250	4	17	
1	42	45	30	37.5	20.3	1.2	29	1250	4	18	
1.5	57	45	30	52.5	20.3	1.2	33	750	4	20	
2	57	50	35	52.5	20.3	1.2	33	750	4	22	

2000Vdc (700Vac)											
C _N (μF)	W (mm)	H (mm)	T (mm)	P (mm)	b (mm)	d (mm)	L _s (nH)	dV/dt (V/μs)	ESR @100kHz (mΩ)	I _{max} (A)	备注
0.15	37	25	15	32.5	5.1	1.0	23	2200	8.5	8	
0.22	37	30	16	32.5	5.1	1.0	23	2200	6.5	9	
0.33	37	34	20	32.5	10.2	1.0	23	2200	6.5	12	
0.47	42	40	20	37.5	10.2	1.2	29	1300	5	15	
0.68	42	44	24	37.5	10.2	1.2	29	1300	4.5	16	
0.82	42	45	30	37.5	20.3	1.2	29	1300	4.5	17	
1.0	57	45	30	52.5	20.3	1.2	33	850	4.5	20	
1.5	57	50	35	52.5	20.3	1.2	33	850	4.5	22	

2500Vdc (725Vac)											
C _N (μF)	W (mm)	H (mm)	T (mm)	P (mm)	b (mm)	d (mm)	L _s (nH)	dV/dt (V/μs)	ESR @100kHz (mΩ)	I _{max} (A)	备注
0.068	37	25	15	32.5	5.1	1.0	23	3200	9	6	
0.1	37	30	16	32.5	5.1	1.0	23	3200	9	7	
0.15	37	34	20	32.5	10.2	1.0	23	3200	8.5	10	
0.22	42	40	20	37.5	10.2	1.2	29	2100	4.5	13	
0.33	42	44	24	37.5	10.2	1.2	29	2100	4.5	15	
0.47	42	45	30	37.5	20.3	1.2	29	2100	4	16	
0.68	57	45	30	52.5	20.3	1.2	33	1200	4	17	
1.0	57	50	35	52.5	20.3	1.2	33	1200	4	18	

3000Vdc (750Vac)											
C _N (μF)	W (mm)	H (mm)	T (mm)	P (mm)	b (mm)	d (mm)	L _s (nH)	dV/dt (V/μs)	ESR @100kHz (mΩ)	I _{max} (A)	备注
0.047	37	25	15	32.5	5.1	1.0	23	3300	9.5	7	
0.068	37	30	16	32.5	5.1	1.0	23	3300	9	8	
0.1	37	34	20	32.5	10.2	1.0	23	3300	8.5	10	
0.15	37	34	20	32.5	10.2	1.0	23	3300	8	11	
0.22	42	40	20	37.5	10.2	1.2	29	2000	6	12	
0.33	42	45	30	37.5	20.3	1.2	29	2000	5	14	
0.47	57	45	30	52.5	20.3	1.2	33	1200	5	16	
0.68	57	50	35	52.5	20.3	1.2	33	1200	5	17	

注：1、I_{max}为10kHz、环境70℃、ΔT_{case}=15℃的电流值。

2、表中未包含的产品规格可根据用户要求进行设计和制造。

Note:

1. I_{max} is the current value of 10kHz, environment 70℃, ΔT_{case}=15℃.

2. Product specifications not included in the table can be designed and manufactured according to user requirements.