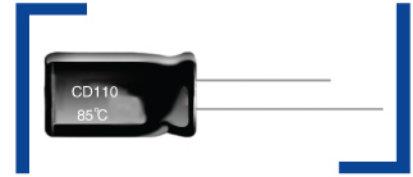


GR 标准品 (CD110型)

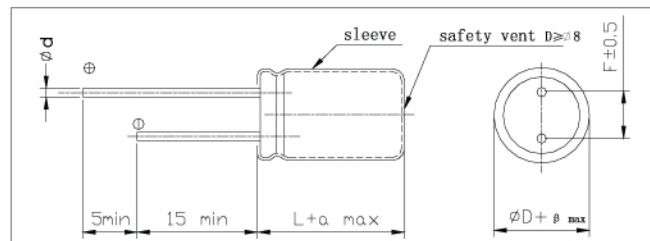
- ◎ 85℃, 2000小时。85℃, 2000hours.
- ◎ 适用于彩电、音响、空调等电子线路中。
Used in color-TV, audio sets, air conditioning circuits etc.
- ◎ RoHS指令已对应完毕。
Adapted to the RoHS directive.



主要技术性能 Specifications

项 目 Item	特性 Performance Characteristics									
使用温度范围 Operating temperature range	-40 ~ +85℃					-25 ~ +85℃				
额定电压范围 Rated voltage range	6.3 ~ 100 V					160 ~ 450 V				
标称电容量范围 Nominal capacitance range	0.1~ 33000 μF									
标称电容量允许偏差 Capacitance tolerance	± 20% (120Hz, +20℃)									
漏 电 流 Leakage current	I≤0.01CV (μ A)或3 μ A 2分钟 取较大者 (at 20℃,after 2 minutes) (Whichever is greater)					I≤0.03CV (μ A) + 10 μ A 1分钟(1 minute)				
损 耗 角 正 切 值 (tg δ) Dissipation factor(+20℃, 120Hz)	UR (V)		6.3	10	16	25	35	50	63	100
	tg δ		0.24	0.20	0.16	0.14	0.12	0.10	0.10	0.08
	UR (V)		160	200	250	400	420	450		
	tg δ		0.20	0.20	0.20	0.20	0.20	0.20		
	容量大于1000μF者, 每增加1000μF, 其损耗角正切值增加0.02 When nominal capacitance exceeds 1000μF,add 0.02 to the value above for each 1000μF increase.									
温度特性 Temperature Characteristics (Impedance ratio at 120Hz)	UR (V)		6.3	10	16	25	35	50	63	100
	Z-25℃ / Z+20℃		5	4	3	2	2	2	2	2
	Z-40℃ / Z+20℃		10	8	6	5	3	3	3	3
	UR (V)		160	200	250	400	420	450		
	Z-25℃ / Z+20℃		3	3	4	6	7	7		
	Z-25℃ / Z+20℃, 容量大于1000μF者, 每增加1000μF阻抗比增加0.5 when nominal capacitance exceeds 1000μF, Add 0.5 to the value of Z-25℃ / Z+20℃above for each 1000μF increase. Z-40℃ / Z+20℃, 容量大于1000μF者, 每增加1000μF阻抗比增加1.0 when nominal capacitance exceeds 1000μF, Add 1.0 to the value of Z-40℃ / Z+20℃above for each 1000μF increase.									
耐久性 Load life	+85℃加额定电压2000小时, 恢复16小时后: After applying rated voltage for 2000 hours at +85℃ and then resumed for 16 hours: 电容量变化率 Capacitance change : ± 20%初始测量值以内 ± 20% of the initial measured value 漏 电 流 Leakage current : ≤初始规定值 ≤The initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 ≤2times of the initial specified value									
高温贮存 Shelf life	+85℃,1000小时贮存后,恢复16小时后: After storage for 1000 hours at +85℃ and then resumed for 16 hours: 电容量变化率 Capacitance change : ± 20%初始测量值以内 ± 20% of the initial measured value 漏 电 流 Leakage current : ≤2倍初始规定值 ≤2times of the initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 ≤2times of the initial specified value									

外形图及尺寸表 Case size table



单位Unit: mm

D	5	6.3	8	10	12.5	16~18	22
F	2	2.5	3.5	5.0	7.5	10	
d	0.5	0.5, 0.6	0.6	0.6	0.8		

α MAX	(L < 20) 1.5	β MAX	(D < 20) 0.5
	(L ≥ 20) 2.0		(D ≥ 20) 1.0

■ 尺寸 Dimensions

		ØD × L(mm)															
容量 Cr(μF)	代码 Code	电压UR		6.3V		10V		16V		25V		35V		50V		63V	
		浪涌电压UR		8		13		20		32		44		63		72	
				0J		1A		1C		1E		1V		1H		1J	
0.1	0R1													5 × 11	1.1		
0.22	R22													5 × 11	2.3		
0.33	R33													5 × 11	3.5		
0.47	R47													5 × 11	5		
1	010													5 × 11	10		
2.2	2R2													5 × 11	23	5 × 11	25
3.3	3R3									5 × 11	20	5 × 11	25	5 × 11	35		
4.7	4R7							5 × 11	30	5 × 11	30	5 × 11	35	5 × 11	40		
10	100							5 × 11	40	5 × 11	50	5 × 11	55	5 × 11	50	5 × 11	65
22	220				5 × 11	55	5 × 11	75	5 × 11	80	5 × 11	85	6.3 × 11	95	6.3 × 11	100	
33	330	5 × 11	55	5 × 11	80	5 × 11	80	5 × 11	95	6.3 × 11	105	6.3 × 11	120	8 × 11.5	140		
47	470	5 × 11	75	5 × 11	95	5 × 11	110	5 × 11	115	6.3 × 11	130	6.3 × 11	155	8 × 11.5	170		
100	101	5 × 11	130	5 × 11	145	6.3 × 11	160	6.3 × 11	190	8 × 11.5	210	8 × 11.5	260	10 × 12.5	300		
120	121							6.3 × 11	130								
220	221	6.3 × 11	200	6.3 × 11	230	8 × 11.5	260	8 × 11.5	330	10 × 12.5	385	10 × 16	410	10 × 20	470		
330	331	6.3 × 11	270	8 × 11.5	290	8 × 11.5	370	10 × 12.5	440	10 × 16	470	10 × 20	520	12.5 × 20	710		
470	471	8 × 11.5	320	8 × 11.5	350	8 × 14	440	10 × 16	520	10 × 20	580	12.5 × 20	740	12.5 × 25	900		
680	680			8 × 11.5	420			10 × 16	540	10 × 20	620						
1000	102	8 × 16	540	10 × 13	620	10 × 16	710	10 × 20	830	12.5 × 20	1000	12.5 × 25	1100	16 × 30	1300		
1500	152	10 × 12.5	780														
2200	222	10 × 16	900	10 × 20	970	12.5 × 25	1150	16 × 25	1300	16 × 30	1550	18 × 30	1700	18 × 40	2300		
3300	332	12.5 × 20	1050	12.5 × 20	1250	12.5 × 25	1400	16 × 30	1650	18 × 30	1950	18 × 40	2200	22 × 40	2700		
4700	472	12.5 × 25	1350	12.5 × 25	1500	16 × 25	1700	16 × 35	2050	18 × 35	2400	22 × 40	2900	22 × 50	3400		
6800	682	12.5 × 25	1600	12.5 × 25	1850	16 × 35	2150	18 × 35	2550	22 × 35	3000	22 × 50	3400				
10000	103	16 × 25	2000	16 × 30	2350	18 × 35	2700	22 × 35	3000	22 × 50	3700						
15000	153	16 × 35	2550	18 × 30	2950	22 × 35	3400	22 × 50	3800								
22000	223	18 × 40	3200	22 × 35	3700	22 × 50	4200										
33000	333	22 × 30	2900														
		22 × 50	3900														

		ØD × L(mm)															
容量 Cr(μF)	代码 Code	电压UR		100V		160V		200V		250V		400V		450V			
		浪涌电压UR		125		13		250		300		450		500			
				2A		2C		2D		2E		2G		2W			
0.1	0R1																
0.22	R22																
0.33	R33																
0.47	R47							8 × 11.5	12	8 × 11.5	12						
1	010	5 × 11	21	5 × 11	17	8 × 11.5	17	8 × 11.5	17	8 × 11.5	17	8 × 11.5	18	8 × 11.5	18		
2.2	2R2	5 × 11	30	6.3 × 11	26	8 × 11.5	26	8 × 11.5	26	8 × 11.5	26	8 × 11.5	34	10 × 12.5	40		
3.3	3R3	5 × 11	40	8 × 11.5	40	8 × 11.5	29	8 × 11.5	33	8 × 11.5	33	8 × 11.5	41	10 × 16	54		
4.7	4R7	5 × 11	45	8 × 11.5	48	8 × 11.5	39	8 × 11.5	39	10 × 12.5	58	10 × 16	64				
10	100	6.3 × 11	75	10 × 12.5	71	10 × 12.5	90	10 × 16	100	10 × 16	94	10 × 20	100				
22	220	8 × 11.5	130	10 × 16	117	10 × 16	140	10 × 20	150	12.5 × 20	173	16 × 25	200				
33	330	10 × 12.5	180	10 × 20	212	10 × 20	190	12.5 × 20	210	16 × 25	250	16 × 30	260				
47	470	10 × 12.5	230	12.5 × 25	150	12.5 × 20	260	12.5 × 25	250	16 × 30	340	16 × 35	340				
100	101	12.5 × 20	370	16 × 25	396	16 × 25	470	16 × 30	460	18 × 35	580	22 × 40	480				
220	221	12.5 × 25	620	16 × 30	636	16 × 35	727	18 × 40	740								
330	331	16 × 25	760	18 × 40	945	18 × 35	900	22 × 40	1020								
470	471	16 × 35	1000	22 × 40	1180	22 × 40	1100										
1000	102	18 × 40	1380														
1800	182	22 × 40	1540														
2200	222	22 × 50	2400														

额定纹波电流 Rated ripple current (mA, +85°C, 120Hz)