

CN Series

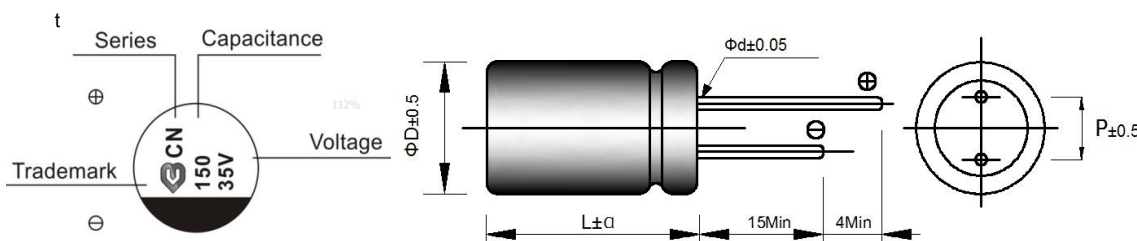
- Low impedance, high ripple current, high voltage, high temperature resistant
- Load life of 2000 hours at 125°C
- RoHS Compliant



规格表 Specifications

项目 Items	特性参数 Characteristics	
使用温度范围 Category Temperature Range	-55 ~ +125°C	
额定工作电压范围 Rated Voltage Range	35 ~ 250 V	
静电容量允许偏差 Capacitance tolerance	±20%(M) (at 20°C, 120Hz)	
漏电流 Leakage Current	施加额定工作电压2分钟后读数, 小于或等于规格值 (20°C) I ≤ 0.15CV 或 120μA (取大值) (The bigger) After 2 minutes applied for rated voltage at 20°C, less than or equal to the specified value.	
损耗角正切值 tanδ Dissipation Factor	小于或等于规格 (at 20°C, 120Hz) Less than or equal to the specified	
温度特性 Low Temperature Characteristics (Max.Impedance Ratio)	Z(-25°C)/Z(+20°C)	≤ 1.25
	Z(-55°C)/Z(+20°C)	≤ 1.25
耐久性 Endurance	125°C 施加额定工作电压2000小时, 恢复到20°C后, 产品性能应满足以下要求 The specifications listed below shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 125°C.	
	Appearance	No significant damage
	Capacitance change	≤ ±20% of the initial value
	D.F.(tanδ)	≤ 150% of the specified value
	ESR	≤ 150% of the specified value
	Leakage current	≤ The specified value
Damp Heat (Steady State) 耐湿负荷特性	在60°C 温度, 湿度90%~95%RH的环境中, 施加额定电压1000小时后, 恢复到20°C后, 产品性能应满足以下要求 The specifications listed below shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 60°C, 90%~ 95% RH.	
	Appearance	No significant damage
	Capacitance change	≤ ±20% of the initial value
	D.F.(tanδ)	≤ 150% of the specified value
	ESR	≤ 150% of the specified value
	Leakage current	≤ The specified value
浪涌电压特性 (Surge Voltage)	浪涌电压=额定电压* 1.15(V) Surge Voltage=Rated voltage * 1.15(V) 在125°C环境中, 按充电30秒, 放电5分30秒, 连续施加浪涌电压1000次(Rc=1kΩ), 待恢复后测试, 应满足以下要求 The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 125°C for 30 seconds through a protective resistor (Rc=1kΩ) and discharge for 5 minutes 30 seconds	
	Appearance	No significant damage
	Capacitance change	≤ ±20% of the initial value
	D.F.(tanδ)	≤ 150% of the specified value
	ESR	≤ 150% of the specified value
	Leakage current	≤ The specified value

外形图 Dimensions (mm)



ΦD	5	6.3	8	10
P	2	2.5	3.5	5
Φd	0.5	0.5	0.6	0.6
α	L < 16mm: 1.0			
	L ≥ 16mm: 2.0			

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◆ 尺寸与最大纹波电流一览表 Standard Ratings

Rated voltage (V)	Rated capacitance(uF)	Case size ΦD*L(mm)	tanδ (120Hz)	ESR(mΩ) at 20°C,100 KHz	Rated ripple current (mArms/105°C /100kHz)	Rated ripple current (mArms/125°C /100kHz)
35 (1V)	22	5*11	0.12	80	600	350
	22	6.3*8	0.12	68	1150	600
	47	8*8	0.12	55	1500	750
	150	8*12	0.12	45	2300	1480
	220	10*12	0.12	45	2900	2000
50 (1H)	22	5*11	0.12	75	560	310
	22	6.3*8	0.12	75	950	420
	47	8*12	0.12	37	2100	1200
	68	10*12	0.12	32	2300	1440
	120	10*12	0.12	31	2670	1760
63 (1J)	22	8*8	0.12	83	1500	580
	33	8*12	0.12	75	1800	720
	82	10*12	0.12	50	2500	1380
80 (1K)	10	8*8	0.12	53	1150	530
	12	8*12	0.12	51	1800	620
	22	10*12	0.12	45	2100	850
	47	8*12	0.12	68	1900	800
100 (2A)	15	8*12	0.12	52	1850	680
	22	10*12	0.12	44	2300	720
	33	10*12	0.12	44	2500	950
160 (2C)	10	8*12	0.12	110	1350	550
	15	10*12	0.12	94	1580	685
	22	10*12	0.12	88	1850	850
200 (2D)	8.2	8*12	0.12	297	950	420
	15	10*12	0.12	275	1350	580
220 (2P)	6.8	8*12	0.12	440	750	250
	10	10*12	0.12	396	1050	550
250 (2E)	3.3	8*12	0.12	512	450	175
	4.7	8*12	0.12	512	600	210
	6.8	10*12	0.12	482	780	250
	8.2	10*12	0.12	458	950	315

◆ 纹波电流修正系数 Rated Ripple Current Coefficient

频率 Frequency(Hz)	120Hz≤f<1kHz	1kHz≤f<10kHz	10kHz≤f<100kHz	100kHz≤f<500kHz
系数 Coefficient	0.05	0.30	0.70	1.00

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