

**CT Series**



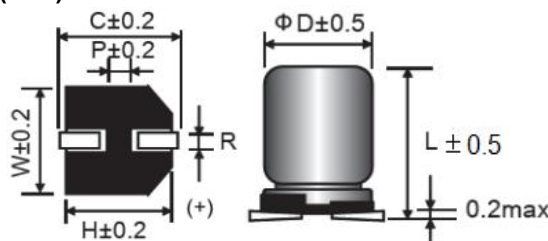
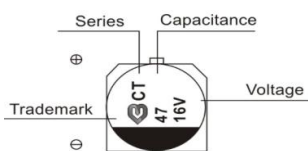
- Super low impedance, high ripple, high temperature resistant
- Load life of 2000 hours at 125°C
- SMD type: lead free reflow soldering condition at 260°C peak correspondence
- RoHS Compliant



◆ 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	2.5 ~ 25V		
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) 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	小于或等于规格值 (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	(100KHz)
	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 satisfied when the capacitors are restored to 20°C after applying rated is applied for 2000 hours at 105°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	
耐湿负荷特性 Damp Heat (Steady State)	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	
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	
Resistance to soldering heat 焊接耐热性	按回流焊试验后, 应满足以下要求 After soldering the capacitor shall meet the specifications listed below.		
	Capacitance change	≤ ±10% of the initial value	
	D.F.(tanδ)	≤ 130% of the specified value	
	ESR	≤ 130% of the specified value	
	Leakage current	≤ The specified value	

◆ 外形图 Dimensions (mm)



ΦD	5	6.3	8	8	10	10
L	6	6	7	12.0	8.0	12.6
W	5.3	6.6	8.3	8.3	10.3	10.3
H	5.3	6.6	8.3	8.3	10.3	10.3
C	6	7.3	9.0	9.0	11.0	11.0
R	0.5~0.8	0.5~0.8	0.8~1.1	0.8~1.1	0.8~1.1	0.8~1.1
P	1.4	2.1	3.2	3.2	4.6	4.6

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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)	Leakage current (uA)	tanδ (120Hz)	ESR(mΩ) at 20°C, 100 KHz	Rated ripple current (mArms/105°C /100kHz)	Rated ripple current (mArms/125°C \100kHz)
4 (0G)	150	6.3*6	300	0.12	35	2450	700
	680	10*8	544	0.12	25	3700	1057
6.3 (0J)	82	6.3*6	3600	0.12	40	2400	686
	100	6.3*6	300	0.12	40	2400	686
10 (1A)	120	8*7	300	0.12	35	2800	800
	150	8*7	300	0.12	35	2800	800
	330	10*8	660	0.12	30	3700	1057
16 (1C)	39	6.3*6	300	0.12	50	2050	586
	47	6.3*6	300	0.12	80	1260	450
	82	8*7	300	0.12	40	2700	711
	150	10*8	480	0.12	35	3020	863
	180	10*8	576	0.12	35	3020	863
	220	8*12	704	0.12	20	3220	889
	270	8*12	864	0.12	20	4000	1250
	330	8*12	1056	0.12	20	4200	1350
	470	8*12	1504	0.12	20	4300	1433
	680	10*12	2176	0.12	18	4900	1400
25 (1E)	22	6.3*6	300	0.12	70	1300	400
	47	6.3*7	300	0.12	60	1500	500
	82	10*8	410	0.12	45	2400	686
	100	10*12	500	0.12	30	4320	1234
	150	10*12	750	0.12	45	4320	1234

◆ 纹波电流補正系数 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