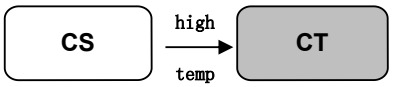
CT Series

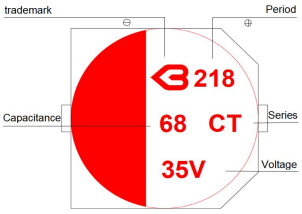
- Super low impedance, high ripple, high temperature resistant
- Load life of 2000 hours at 125℃
- SMD type: lead free reflow soldering condition at 260℃ peak correspondence
- RoHS Compliant

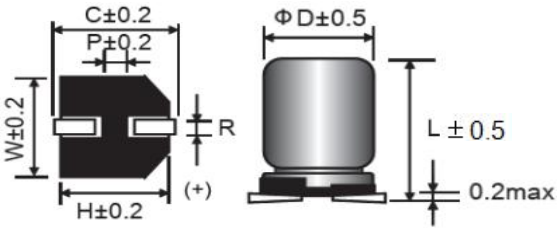


◆ Specifications

Items	Characteristics		
Category Temperture Range	-55 ~ +125℃		
Rated Voltage Range	2.5 ~ 63V		
Capacitance tolerance	±20%(M) (at 20℃,120Hz)		
Leakage Current	After 2 minutes applied for rated voltage at 20℃, less than or equal to the specified value.		
tanδ Dissipation Factor	Less than or equal to the specified (at 20℃,120Hz)		
Low Temperture Characteristics (Max.Impedance Ratio)	Z(-25℃)/Z(+20℃)	≤1.25	(100KHz)
	Z(-55℃)/Z(+20℃)	≤1.25	
Endurence	The specifications listed below shall be satisfied when the capacitors are restored to 20℃ after applying rated is applied for 2000 hours at 125℃.		
	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)	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℃, 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	
(Surge Voltage)	Surge Voltage=Rated voltage * 1.15(V) The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltages specified at 15~35℃ for 30 seconds through aprotective resistor (R=1kΩ) and discharge for 5 minutes 30seconds		
	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	
Resistance to soldering heat	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	

◆ 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

CT Series

◆ Standard Ratings

Rated voltage (V)	Rated capacitance (uF)	Case size ΦD*L(mm)	Leakage carrent (uA)	tanδ （120Hz）	ESR(mΩ) at 20℃,100 KHz	Rated ripple carrent (mArms/105℃ /100kHz)	Rated ripple carrent (mArms/125℃ \100kHz)
2.5	560	6.3*5.8	500	0.12	30	2500	1000
6.3	100	5*5.8	500	0.12	40	2500	1000
	220	5*8	500	0.12	30	3000	1200
	220	6.3*5.8	500	0.12	30	3000	1200
	330	6.3*5.8	500	0.12	30	3000	1200
10	100	5*5.8	500	0.12	40	2400	950
	220	6.3*5.8	500	0.12	30	2800	1100
	330	8*9.7	660	0.12	25	3500	1400
16	100	6.3*5.8	500	0.12	35	2000	900
	150	6.3*6	500	0.12	35	2200	800
	220	6.3*5.8	704	0.12	35	2500	1000
	270	6.3*7.7	864	0.12	25	3000	1200
	330	8*12.5	1056	0.12	20	4200	1700
	470	8*12.5	1504	0.12	20	4500	1800
	680	10*12.5	2176	0.12	18	5000	2000
25	47	6.3*7.7	500	0.12	60	2000	900
	100	6.3*7.7	500	0.12	50	2000	900
	220	6.3*8	1100	0.12	50	2300	950
	330	6.3*11	1650	0.12	40	2500	1000
	470	6.3*13	2350	0.12	25	2800	1100
35	100	8*12.5	700	0.12	30	2800	1100
	150	10*12.5	1050	0.12	30	3200	1300
	220	10*12.5	1540	0.12	30	3200	1300
50	10	5*5.8	500	0.12	100	1200	500
	22	6.3*5.8	500	0.12	50	1500	600
	33	6.3*7.7	500	0.12	40	2000	900
	47	8*9.7	500	0.12	40	220	950
	56	8*10.5	560	0.12	30	2400	1000
	100	10*12.5	1000	0.12	28	2800	1100
	180	10*12.5	1800	0.12	28	2800	1100
63	33	8*12.5	500	0.12	25	2500	1000
	47	8*12.5	592	0.12	25	2500	1000
	68	10*12.5	856	0.12	25	2800	1100
	100	10*12.5	1260	0.12	25	3200	1200

◆ Rated Ripple Current Coefficient

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