

CT Series 9mm 105°C Low Impedance

CT 系列



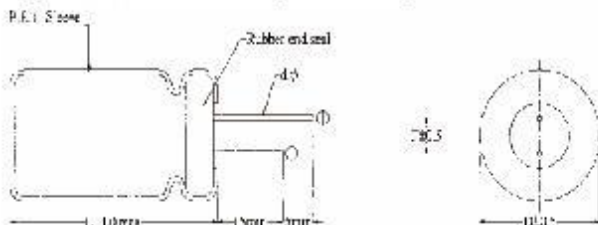
Features

- Design for space-saving and density insertion
- Load life 5000 hrs at 105°C
- Used in : VTR, car radio , car stereos, charger, etc.
- RoHS Compliant

● Specifications

Item	Performance Characteristics						
Operating Temp. Range	-55~+105°C						
Rated Voltage Range	6.3 to 50VDC						
Capacitance Range	10 to 470µF						
Capacitance Tolerance	±20% (120Hz, 20°C)						
Leakage Current	$I_L \leq 0.01CV$ or 3.0 (µA), After 2 minutes whichever is greater measured with rated working voltage applied						
Dissipation Factor(Tanδ) (max, 120Hz, 20°C)	W.V(VDC)	6.3	10	16	25	35	50
	D.F(%)	18	16	14	12	10	8
Low Temp. Characteristics (Max Impedance Ratio) (120Hz)	W.V(VDC)	6.3	10	16	25	35	50
	$Z_{(-25^\circ\text{C})}/Z_{(+25^\circ\text{C})}$	2	2	2	2	2	2
	$Z_{(-55^\circ\text{C})}/Z_{(+25^\circ\text{C})}$	3	3	3	3	3	3
Load Life	Test conditions Duration time: 5000hrs Ambient temperature: +105°C Applied voltage: Rated DC working voltage After test requirements at +20°C Capacitance change: $\leq \pm 20\%$ of the initial measured value(4V: $\leq \pm 30\%$) Dissipation factor: $\leq 200\%$ of the initial specified value Leakage current: \leq the initial specified value						
Shelf Life	Test conditions Duration time: 1000hrs Ambient temperature: +105°C Applied voltage: None After test requirements at +20°C: Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30minutes						
Industrial	JIS C-5101-4(IEC30384-4)						

Diagram of dimensions(cunit:mm)



ΦD	4	5	6.3	8
Φd	0.45	0.5	0.5	0.5
F	1.5	2.0	2.5	3.5
L	L+1.0max			

Multiplier for ripple current vs frequency

CAP	10	20	30	40	50	100
≤ 10	0.47	0.59	0.76	0.85	0.97	1
10 < CAP ≤ 470	0.52	0.65	0.80	0.89	0.97	1

Multiplier for ripple current vs temperature

Temp.(°C)	60	85	105
Cap.(µF)	1.50	1.70	1.00

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● Case Size

Cap(μF)	WV(SV)	6.3(7.2)			10(13)			16(20)		
		Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
10					5*9	57	1.05	5*9	72	1.05
15		5*9	40	2.8	5*9	77	1.05	5*9	92	1.05
22		5*9	50	2.5	5*9	92	0.5	5*9	80	0.4
33		5*9	75	1.95	5*9	90	0.45	5*9	110	0.4
39		5*9	85	1.75	5*9	135	0.3	5*9	147	0.4
47		5*9	95	1.59	5*9	144	0.3	5*9	152	0.4
56		5*9	110	1.2	5*9	152	0.28	5*9	172	0.25
68		5*9	123	1.2	5*9	152	0.28	5*9	182	0.25
82		5*9	128	1.11	5*9	172	0.25	6.3*9	345	0.23
100		5*9	130	0.95	6.3*9	205	0.25	6.3*9	485	0.23
		6.3*9	127	0.93				6.3*9	485	0.23
220		6.3*9	160	0.60	6.3*9	350	0.22	8*9	550	0.098
330		6.3*9	327	0.31	8*9	580	0.15	8*9	864	0.098
470		8*9	450	0.27	8*9	864	0.098			

Ripple Current (mA, rms) at 105°C 100KHz

Max Impedance (Ω) at 20°C 100 KHz

● Case Size

Cap(μF)	WV(SV)	25(32)			35(44)			50(63)		
		Size	Ripple	Impedance	Size	Ripple	Impedance	Size	Ripple	Impedance
10		5*9	9	1.05	5*9	102	1.05	5*9	110	1.05
22		5*9	1	0.48	6.3*9	170	0.4	6.3*9	170	0.38
33		5*9	18	0.4	6.3*9	298	0.4	6.3*9	342	0.8
39		5*9	1	0.38	6.3*9	340	0.30	6.3*9	356	0.62
47		5*9	2	0.35	6.3*9	350	0.26	8*9	356	0.38
56		5*9	3	0.25	6.3*9	495	0.32	8*9	480	0.25
68		6.3*9	3	0.23	8*9	580	0.16	8*9	520	0.25
82		6.3*9	5	0.20	8*9	580	0.16	8*9	610	0.21
100		6.3*9	5	0.22	8*9	550	0.12	8*9	652	0.15
220		8*9	9	0.12						

Ripple Current (mA, rms) at 105°C 100KHz

Max Impedance (Ω) at 20°C 100 KHz

- For special designing requirement,please contact us.