

CTL Series - Epoxy-Coated Solid Electrolytic Tantalum Capacitor

Brief Introduction

CTL Series Sinter-Anode, Epoxy-coated solid electrolyte tantalum capacitors are encapsulated with flame-retardent yellow epoxy powder, marked by laser. CTL Series meets and exceeds the requirements of IEC specification 384-15-3, IECQ specification QC300201/US0003 and technical specification SJ/T10856-96 used in military and civil applications such as TV sets, camcorders, computers, program-controlled electronic telephone switching systems, telephones, instruments and meters.



Features

- Operating temperature range $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$; $>85^{\circ}\text{C}$ with rated voltage derating
- Rated Voltage : see table 1
- DC leakage at 20°C : $10 \leq 0.01 C_R U_R$ or $0.5 \mu\text{A}$ (whichever is greater)
- Dissipation factor at 20°C : see table 3
- Capacitance range : $0,047\mu\text{F} \sim 680\mu\text{F}$, see table 1
- Capacitance tolerance : $\pm 20\%$; $\pm 10\%$; $\pm 5\%$ (only for special order)
- Case sizes and dimensions : see table 2
- Temperature characteristics : see table 2

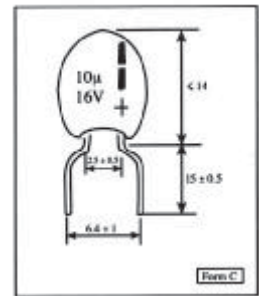
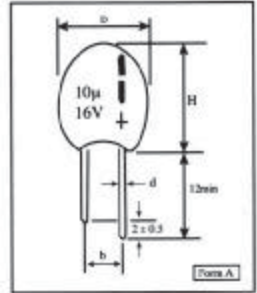
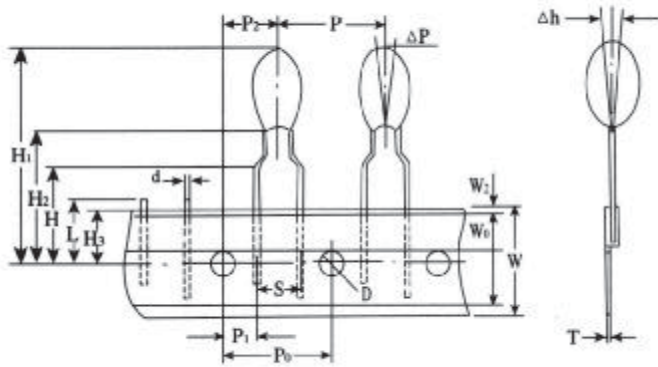
Temperature Characteristics

[Table 3]

Capacitance (μF)	Capacitance Change			DF Max.				DCL Max.		
	-55°C	$+85^{\circ}\text{C}$	$+125^{\circ}\text{C}$	-55°C	$+20^{\circ}\text{C}$	$+85^{\circ}\text{C}$	$+125^{\circ}\text{C}$	$+20^{\circ}\text{C}$	$+85^{\circ}\text{C}$	$+125^{\circ}\text{C}$
≤ 1.0	± 10	± 15	± 25	6	4	6	6	$I_o \leq 0.02 C_R U_R$ (or) $1\mu\text{F}$ (whichever is greater)	10 I_o	12.5 I_o
1.6 ~ 6.8				8	6	8	8			
10 ~ 68				10	8	10	10			
100 ~ 680				12	10	12	12			

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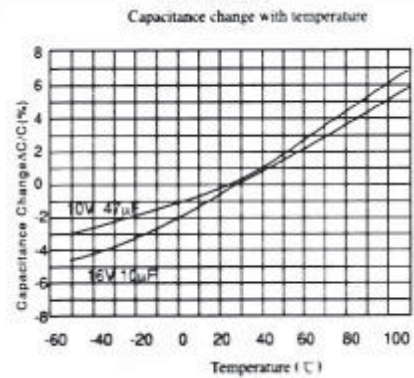
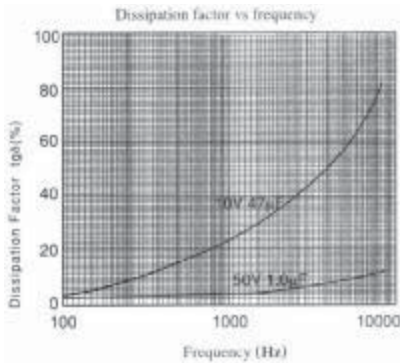
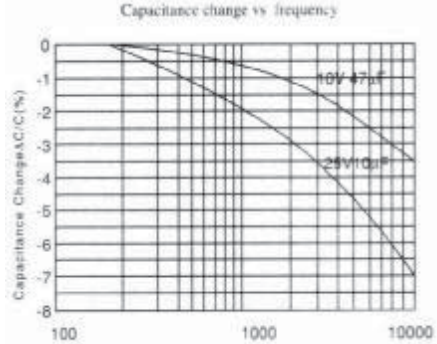
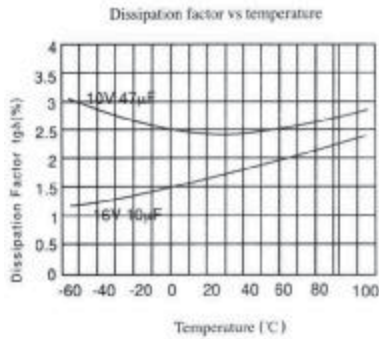
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Designation	Symbol	Dimensions (mm)	
Pitch of component	P	12.7 +/- 1.0	
Feed hole pitch	Po	12.7 +/- 0.3	
Tape width	W	+1 18 -0.5	
Hold down tape width	Wo	12 +/- 0.5	
Hole position	H3	+0,75 9 -0.5	
Hold down tape position	W2	3.0 max	
Overall component height	H1	32.5 max	
Component alignment	P	+/- 1.3 max	
Feed hole diameter	D	4.0 +/- 0.2	
Tape thickness	T	0.5 +/- 0.2	
Component alignment	H	+/- 2.0 max	
Length of snipped leads	L	11 max	
Lead clinch height	H	16 +/- 0.5	
Lead wire spacing	S	2.5 +/- 0.5	5.0 +/- 0.7
Feed hole corner to wire center	P1	5.10 +/- 0.5	3.85 +/- 0.7
Hole center to component center	P2	6.35 +/- 0.4	
Component height	H2	+ 2 18 0	
Lead diameter	D	0.5 +/- 0.05	

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Order

1	6	7	8	9	10	11	12	13	14	15	16	17	18
XTRON	C	T	L	A	0	G	0	1	0	5	M	-	-
Fabrikat	Series			Size	Special	Voltage	Capacitance			Tolerance	Suffix		
		L leaded	A	0 Stand.	A : 4V	EIA Code			K : +/- 10%	-- : 2.54 mm bulk			
			B		B : 6.3 V	ex. : 1µF = 0105			M : +/- 20%	HB : 5.08 mm bulk			
			C		C : 10V					CA : 2.54 mm taped			
			D		D : 16V					DB : 5.08 mm taped			
			E		E : 20V								
			F		F : 25V								
					G : 35V								
					H : 50V								