

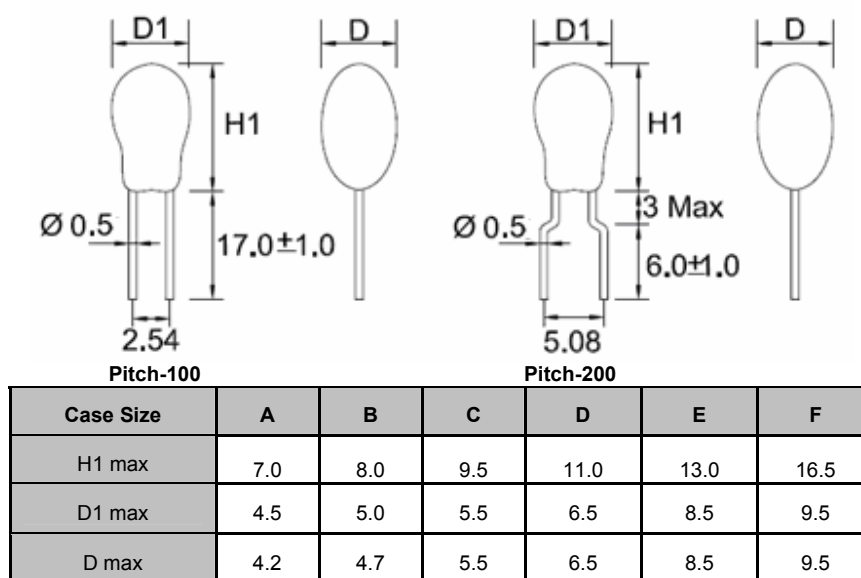
Radial Leaded Dipped Tantalum Capacitor

Features

- Specially designed of general purpose
- Highly reliable resin dipped type
- Excellent frequency and temperature characteristics
- Non-flammable epoxy resin (UL-94-V-O)
- RoHS compliant



Dimensions (in mm)



Specification

Description	Value	Conditions
Operating Temperature Range	-55 ~ +125 °C	>85 °C with rated voltage derating
Rated Working Voltage Range	6.3 ~ 50 V DC	
Nominal Capacitance Range	0.1 ~ 330 µF	
Capacitance Tolerance	±20% (±10% is available)	at 120Hz, 20 °C
Max. Leakage current	I=0.008CV or 0.5 µA, whichever is greater (I= Leakage Current(µA), C=Nominal Capacitance(µF), V=Rated Voltage(V))	After rated Voltage applied 2 minutes at 20 °C

Radial Leaded Dipped Tantalum Capacitor

TDT Series

Description		Value				Conditions
Max. Dissipation Factor (tan δ)	Working Voltage	6.3 ~ 50 V				at 120Hz, 20 °C
	Capacitance	≤ 1.0 uF	1.5 ~ 6.8 uF	10 ~ 68 uF	≥ 100 uF	
	tan δ max.	0.04	0.06	0.08	0.1	
Characteristics at High and Low Temperature	Capacitance Change	±12% of initial measured value at 20 °C				at -55 °C
	Leakage Current	≤10% of initial measured value				at +105 °C
	Capacitance Change	±12% of initial measured value at 20 °C				
Moisture Resistance	Leakage Current	≤0.012 CV or 0.75 μA, whichever is greater				After 500 hours at 40°C , 90~95% RH without load
	Capacitance Change	±10% of initial measured value				
	tan δ	≤150% of initial specified value				
Endurance Life	Leakage Current	≤0.01% CV or 0.00625 μA, whichever is greater				After rated voltage applied 1000 hours at 85°C or derated voltage applied 1000 hours at 105°C; The source impedance is 1Ω/V.
	Capacitance Change	±10% of initial measured value				
	tan δ	≤initial specified value				
Shelf Life		Shall meet the same requirement as “Endurance Life” test				After 1000 hours at 85°C without voltage

Case Size / tan δ Max. / I_L (μA) Max. / ESR (ohm) Max.

C(μF)	Rated Voltage (V)											
	6.3				10				16			
	Case Size	tan δ *Max.	I_L * Max.	ESR **Max.	Case Size	tan δ *Max.	I_L * Max.	ESR **Max.	Case Size	tan δ *Max.	I_L * Max.	ESR **Max.
1.5									A	4%	0.5	10.0
2.2					A	6%	0.5	13.0	A	6%	0.5	8.0
3.3	A	6%	0.5	13.0	A	6%	0.5	10.0	A	6%	0.5	6.0
4.7	A	6%	0.5	10.0	A	6%	0.5	8.0	B	6%	0.6	5.0
6.8	A	6%	0.5	8.0	B	6%	0.5	6.0	B	8%	0.8	4.0
10	B	8%	0.5	6.0	B	8%	0.8	5.0	B	8%	1.2	3.2
15	B	8%	0.8	5.0	C	8%	1.2	3.7	C	8%	1.9	2.5
22	C	8%	1.1	3.7	C	8%	1.7	2.7	C	8%	2.8	2.0
33	C	8%	1.7	3.0	D	8%	2.6	2.1	D	8%	4.2	1.6
47	D	8%	2.4	2.0	D	8%	3.7	1.7	D	8%	6.0	1.3
68	D	8%	3.4	1.8	D	8%	5.4	1.3	E	8%	8.7	1.0
100	E	10%	5.0	1.6	E	10%	8.0	1.0	E	10%	12.8	0.8
150	E	10%	7.6	0.9	E	10%	12.0	0.8	F	10%	19.2	0.6

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C(μF)	Rated Voltage (V)											
	25				35				50			
	Case Size	tan δ *Max.	I _L * Max.	ESR **Max.	Case Size	tan δ *Max.	I _L * Max.	ESR **Max.	Case Size	tan δ *Max.	I _L * Max.	ESR **Max.
220	E	10%	11.0	0.9	F	10%	17.6	0.8				
330	F	10%	16.6	0.7								

C(μF)	Rated Voltage (V)											
	25				35				50			
	Case Size	tan δ *Max.	I _L * Max.	ESR **Max.	Case Size	tan δ *Max.	I _L * Max.	ESR **Max.	Case Size	tan δ *Max.	I _L * Max.	ESR **Max.
0.10					A	4%	0.5	26.0	A	4%	0.5	26.0
0.15					A	4%	0.5	21.0	A	4%	0.5	21.0
0.22					A	4%	0.5	17.0	A	4%	0.5	17.0
0.33					A	4%	0.5	15.0	A	4%	0.5	15.0
0.47					A	4%	0.5	13.0	A	4%	0.5	13.0
0.68					A	4%	0.5	10.0	A	4%	0.5	10.0
1.0	A	4%	0.5	10.0	A	4%	0.5	8.0	B	4%	0.5	8.0
1.5	A	4%	0.5	8.0	A	4%	0.5	6.0	C	4%	0.6	6.0
2.2	A	6%	0.5	6.0	B	6%	0.6	5.0	C	6%	0.8	3.5
3.3	B	6%	0.6	5.0	B	6%	0.9	4.0	D	6%	1.3	3.0
4.7	B	6%	0.9	4.0	C	6%	1.3	3.0	D	6%	1.8	2.5
6.8	C	6%	1.3	3.1	D	6%	1.9	2.5	E	6%	2.7	2.0
10	C	8%	2.0	2.5	D	8%	2.8	2.0	E	8%	4.0	1.6
15	D	8%	3.0	2.0	E	8%	4.2	1.6	F	8%	6.0	1.2
22	D	8%	4.4	1.5	E	8%	6.1	1.3	F	8%	8.8	1.0
33	E	8%	6.6	1.2	F	8%	9.2	1.0				
47	E	8%	9.4	1.0	F	8%	10.0	0.8				
68	F	8%	13.6	0.8								
100	F	10%	20	0.8								

Note: 1. *Max. at 120Hz, 20°C.

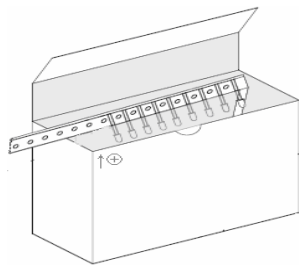
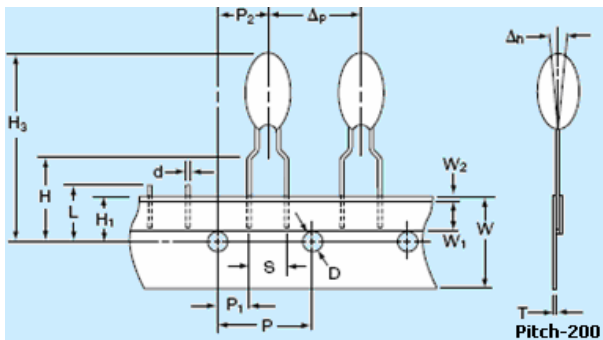
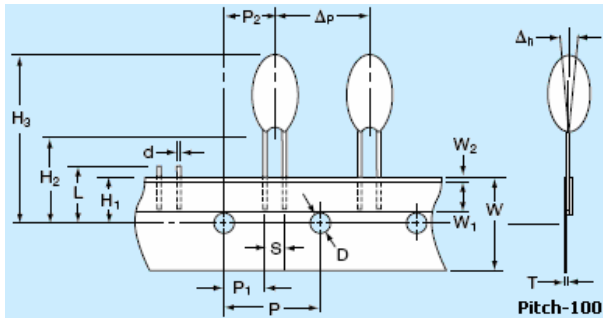
2. **Max. Equivalent Series Resistance: (Ω)/ 100 KHz, 20°C.

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TDT Series

Packing Information

Tape & Ammo Packing (Code AR): confirm to IEC286-2.



Item	Code	Dimension(mm)
Carrier tape width	W	18.0+1.0/-0.5
Hold down tape width	W ₁	6.0 ± 0.5
Hold down tape position	W ₂	1.0 max
Feed hole diameter	D	4.0 ± 0.2
Feed hole pitch	P	12.7 ± 0.3
Hole center to lead	P ₁	Pitch-100: 5.05 ± 0.7 Pitch-200: 3.85 ± 0.7
Hole center to component center	P ₂	6.35 ± 1.0
Lead wire clench height	H	16 ± 0.5
Hole position	H ₁	9.0 ± 0.5
Base of component height	H ₂	0.8 min
Component height	H ₃	32.2 max
Component alignment	ΔP	0 ± 1.3
	Δh	0 ± 2.0
Lead spacing	S	"S" wires: 2.5+0.6/-0.1
		"B" wires: 5.0+0.6/-0.5
Lead diameter	d	0.5 ± 0.05
Length of snapped lead	L	11.0 max
Carrier tape thickness	T	0.5 ± 0.1

Case Code	A	B~C	D~F
Qty.(PCS/box)	2500	2000	1000
Box Dimension	330mmx240mmx45mm		

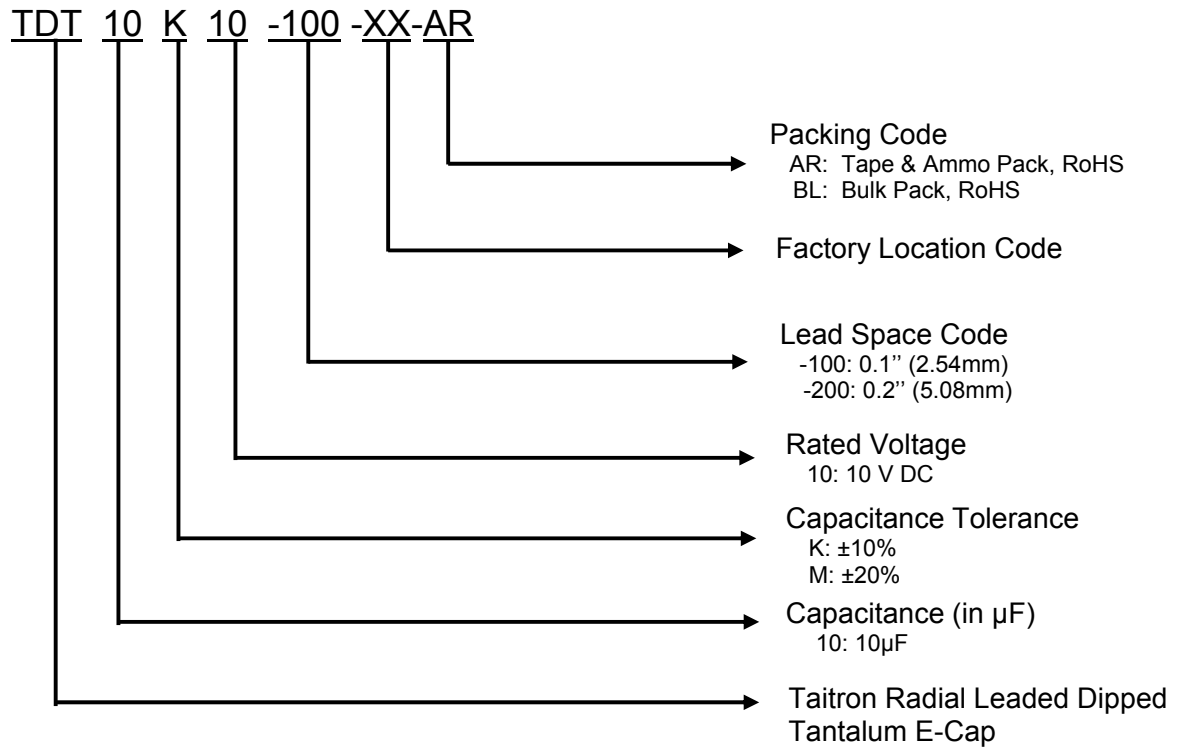
Bulk Packing (Code BL): the quantity of plastic bags depends on:

Case Size	A	B	C	D	E	F
Pitch-100	1000	1000	500	500	250	250
Pitch-200	1000	1000	500	500	500	500

Radial Leaded Dipped Tantalum Capacitor

TDT Series

How to Order



Radial Leaded Dipped Tantalum Capacitor

TDT Series

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