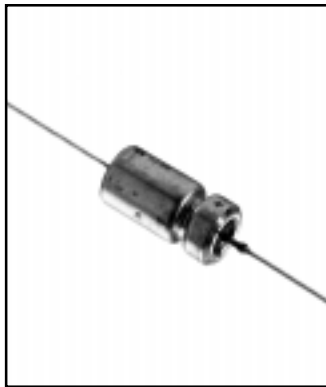


Type TLS Wet Tantalum Capacitors



- Silver Case Technology
- High Capacitance per Case Size
- Extremely Low DCL
- Long Operating Life
- Rugged Mechanical Construction
- Wide Operating Temperature Range

GENERAL SPECIFICATIONS

Operating Temperature:
-55°C to +125°C

Voltage Range:
6 to 125 VDC @ 85°C
4 to 85 VDC @ 125°C

Capacitance:
1.7 to 1200 μ F

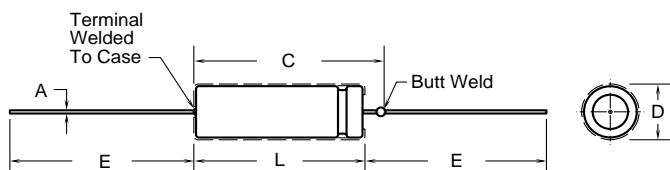
Tolerance Range:
 \pm 20%, \pm 10%
(\pm 5% on special order)

TYPICAL APPLICATIONS

Filtering, coupling, bypass circuits
Critical timing circuits
Low source impedance circuits
High charging current circuits

Wet Tantalum Capacitors

Physical Specifications



Part Number Nomenclature

TLS **405** **K** **060** **C** **1** **A**
(1) (2) (3) (4) (5) (6) (7)

1. TLS Series - Silver Case/Standard Capacitance Ratings
2. Capacitance Code (Expressed in Picofarads)
First 2 digits: Significant Figures
Third digit: Number of zeros (Example: 405 = 4 μ F)
3. Capacitance Tolerance:
M = \pm 20%, K = \pm 10%, J = \pm 5%
4. DC Voltage Rating:
Zeros are used to precede the voltage rating where necessary to complete the three digit block
5. C = Temp Range
6. 1 = Mylar Sleeve
7. Case Size Code

INCHES

DIMENSIONS

MILLIMETERS

Case #	MIL	Uninsulated		Insulated		C	A Lead Dia Nom	E Lead Lgth \pm .250	Approximate Weight (Grams) (1 gram = .035 Oz.)	Case #	MIL	Uninsulated		Insulated		C	A Lead Dia Nom	E Lead Lgth \pm 6.35
		D	L	D	L							D	L	D	L			
A	T1	.188	.453	.219	.608	.734	.025 #22	1.500	1.4	A	T1	4.78	11.51	5.56	15.45	18.64	.64 #22	38.10
B	T2	.281	.641	.312	.796	.922	.025 #22	2.250	3.0	B	T2	7.14	16.28	7.92	20.22	23.41	.64 #22	57.15
C	T3	.375	.766	.406	.921	1.047	.025 #22	2.250	5.6	C	T3	9.53	19.46	10.31	23.40	26.59	.64 #22	57.15
F	T4	.375	1.062	.406	1.217	1.343	.025 #22	2.250	9.2	F	T4	9.53	26.97	10.31	30.91	34.11	.64 #22	57.15

Cap μ F	Case Code	Catalog Number	Max DCL μ A		Max ESR Ω +25°C	Max Z Ω -55°C	Max % Cap Change From 25°C		
			25°C	85°C			-55°C	+85°C	+125°C
6 WVDC; 7 VDC Surge @ 85°C 4 WVDC; 4.7 VDC Surge @ 125°C									
30	A	TLS306*006C1A	1	2	4.0	100	-40	+10.5	+12
68	A	TLS686*006C1A	1	2	4.0	60	-40	+14	+16
140	B	TLS147*006C1B	1	3	2.0	40	-40	+14	+16
270	B	TLS277*006C1B	1	6.5	4.0	25	-44	+17.5	+20
330	C	TLS337*006C1C	2	7.9	2.0	20	-44	+14	+16
560	C	TLS567*006C1C	2	13	3.0	25	-64	+17.5	+20
1200	F	TLS128*006C1F	3	14	1.6	20	-80	+25	+25

Cap μ F	Case Code	Catalog Number	Max DCL μ A		Max ESR Ω +25°C	Max Z Ω -55°C	Max % Cap Change From 25°C		
			25°C	85°C			-55°C	+85°C	+125°C
10 WVDC; 11.5 VDC Surge @ 85°C 7 WVDC; 8 VDC Surge @ 125°C									
20	A	TLS206*010C1A	1	2	4.0	175	-32	+10.5	+12
47	A	TLS476*010C1A	1	2	5.1	100	-36	+14	+16
100	B	TLS107*010C1B	1	4	2.0	60	-36	+14	+16
180	B	TLS187*010C1B	1	7	4.0	40	-36	+14	+16
250	C	TLS257*010C1C	2	10	2.0	30	-40	+14	+16
390	C	TLS397*010C1C	2	16	3.0	25	-64	+17.5	+20
750	F	TLS757*010C1F	4	16	1.0	23	-80	+25	+25

Cap μ F	Case Code	Catalog Number	Max DCL μ A		Max ESR Ω +25°C	Max Z Ω -55°C	Max % Cap Change From 25°C		
			25°C	85°C			-55°C	+85°C	+125°C
8 WVDC; 9.2 VDC Surge @ 85°C 5 WVDC; 5.7 VDC Surge @ 125°C									
25	A	TLS256*008C1A	1	2	4.0	100	40	+10.5	+12
56	A	TLS566*008C1A	1	2	4.0	59	-40	+14	+16
220	B	TLS227*008C1B	1	7	4.0	30	-44	+17.5	+20
430	C	TLS437*008C1C	2	14	2.8	25	-64	+17.5	+20
850	F	TLS857*008C1F	4	16	1.0	22	-80	+25	+25

Cap μ F	Case Code	Catalog Number	Max DCL μ A		Max ESR Ω +25°C	Max Z Ω -55°C	Max % Cap Change From 25°C		
			25°C	85°C			-55°C	+85°C	+125°C
15 WVDC; 17.2 VDC Surge @ 85°C 10 WVDC; 11.5 VDC Surge @ 125°C									
15	A	TLS156*015C1A	1	2	5.0	155	-24	+10.5	+12
33	A	TLS336*015C1A	1	2	5.0	90	-28	+14	+16
70	B	TLS706*015C1B	1	4	2.5	75	-28	+14	+16
120	B	TLS127*015C1B	1	7	4.1	50	-28	+17.5	+20
170	C	TLS177*015C1C	2	10	2.0	35	-32	+14	+16
270	C	TLS277*015C1C	2	16	3.0	30	-56	+17.5	+20
540	F	TLS547*015C1F	6	24	1.2	23	-80	+25	+25

* Insert Proper Letter Code For Tolerance: M = \pm 20%, K = \pm 10%, J = \pm 5%

