

# SOLID TANTALUM CHIP CAPACITORS

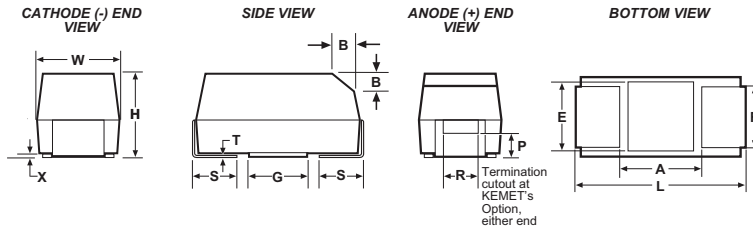


## T494 SERIES — Low ESR, Industrial Grade

### FEATURES

- Low ESR values in EIA 535BAAC sizes
- Taped and Reeled per EIA 481-1
- Symmetrical, Compliant Terminations
- Optional Gold-plated Terminations
- Laser-marked Case
- 100% Surge Current test on C, D, E, U, V, X sizes
- Capacitance: 0.1  $\mu$ F to 1000  $\mu$ F
- Tolerance:  $\pm 10\%$ ,  $\pm 20\%$
- Voltage: 3-50 VDC
- Extended Range Values
- Low Profile Case Sizes
- RoHS Compliant & Leadfree Terminations (See www.kemet.com for lead transition)
- Operating Temperature:  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

### CAPACITOR OUTLINE DRAWING



### STANDARD T494 DIMENSIONS Millimeters (inches)

Case Size		Component													
KEMET	EIA	L*	W*	H*	F* $\pm 0.1 \pm (.004)$	S* $\pm 0.3 \pm (.012)$	B $\pm 0.15$ (Ref) $\pm .006$	X (Ref)	P (Ref)	R (Ref)	T (Ref)	A (Min)	G (Ref)	E (Ref)	
A	3216-18	3.2 $\pm 0.2$ (.126 $\pm .008$ )	1.6 $\pm 0.2$ (.063 $\pm .008$ )	1.6 $\pm 0.2$ (.063 $\pm .008$ )	1.2 (.047)	0.8 (.031)	0.4 (.016)	0.10 $\pm 0.10$ (.004 $\pm .004$ )	0.4 (.016)	0.4 (.016)	0.13 (.005)	1.4 (.055)	1.1 (.043)	1.3 (.051)	
B	3528-21	3.5 $\pm 0.2$ (.138 $\pm .008$ )	2.8 $\pm 0.2$ (.110 $\pm .008$ )	1.9 $\pm 0.2$ (.075 $\pm .008$ )	2.2 (.087)	0.8 (.031)	0.4 (.016)	0.10 $\pm 0.10$ (.004 $\pm .004$ )	0.5 (.020)	1.0 (.039)	0.13 (.005)	1.1 (.043)	1.8 (.071)	2.2 (.087)	
C	6032-28	6.0 $\pm 0.3$ (.236 $\pm .012$ )	3.2 $\pm 0.3$ (.126 $\pm .012$ )	2.5 $\pm 0.3$ (.098 $\pm .012$ )	2.2 (.087)	1.3 (.051)	0.5 (.020)	0.10 $\pm 0.10$ (.004 $\pm .004$ )	0.9 (.035)	1.0 (.039)	0.13 (.005)	3.1 (.122)	2.8 (.110)	2.4 (.094)	
D	7343-31	7.3 $\pm 0.3$ (.287 $\pm .012$ )	4.3 $\pm 0.3$ (.169 $\pm .012$ )	2.8 $\pm 0.3$ (.110 $\pm .012$ )	2.4 (.094)	1.3 (.051)	0.5 (.020)	0.10 $\pm 0.10$ (.004 $\pm .004$ )	0.9 (.035)	1.0 (.039)	0.13 (.005)	3.8 (.150)	3.5 (.138)	3.5 (.138)	
X	7343-43	7.3 $\pm 0.3$ (.287 $\pm .012$ )	4.3 $\pm 0.3$ (.169 $\pm .012$ )	4.0 $\pm 0.3$ (.157 $\pm .012$ )	2.4 (.094)	1.3 (.051)	0.5 (.020)	0.10 $\pm 0.10$ (.004 $\pm .004$ )	1.7 (.067)	1.0 (.039)	0.13 (.005)	3.8 (.150)	3.5 (.138)	3.5 (.138)	
E	7260-38	7.3 $\pm 0.3$ (.287 $\pm .012$ )	6.0 $\pm 0.3$ (.236 $\pm .012$ )	3.6 $\pm 0.2$ (.142 $\pm .008$ )	4.1 (.161)	1.3 (.051)	0.5 (.020)	0.10 $\pm 0.10$ (.004 $\pm .004$ )	0.9 (.035)	1.0 (.039)	0.13 (.005)	3.8 (.150)	3.5 (.138)	3.5 (.138)	

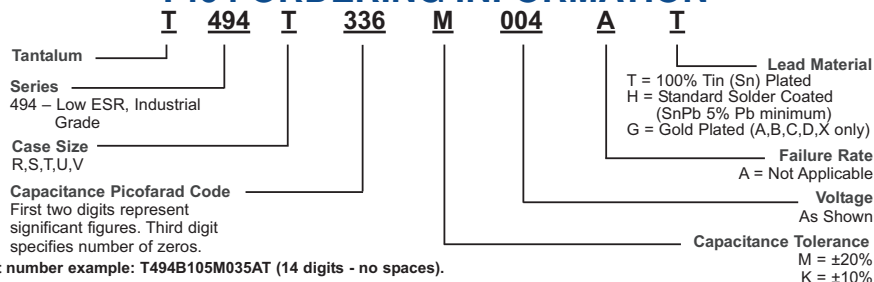
Notes: 1. Metric dimensions govern  
2. (Ref) Dimensions provided for reference only  
\* Mil-PRF-55365/8 Specified Dimensions

### LOW PROFILE T494 DIMENSIONS Millimeters (inches)

Case Size		Component										
KEMET	EIA	L*	W*	H max	F* $\pm 0.1 \pm (.004)$	S* $\pm 0.3 \pm (.012)$	X (Ref)	T (Ref)	A (Min)	G (Ref)	E (Ref)	
R	2012-12	2.0 $\pm 0.2$ (.079 $\pm .008$ )	1.3 $\pm 0.2$ (.051 $\pm .008$ )	1.2 (.047)	0.9 (.035)	0.5 (.020)	0.05 (.002)	0.13 (.005)	0.8 (.031)	0.5 (.020)	0.8 (.031)	
S	3216-12	3.2 $\pm 0.2$ (.126 $\pm .008$ )	1.6 $\pm 0.2$ (.063 $\pm .008$ )	1.2 (.047)	1.2 (.047)	0.8 (.031)	0.05 (.002)	0.13 (.005)	1.4 (.055)	1.1 (.043)	1.3 (.051)	
T	3528-12	3.5 $\pm 0.2$ (.138 $\pm .008$ )	2.8 $\pm 0.2$ (.110 $\pm .008$ )	1.2 (.047)	2.2 (.087)	0.8 (.031)	0.05 (.002)	0.13 (.005)	1.1 (.043)	1.8 (.071)	2.2 (.087)	
U	6032-15	6.0 $\pm 0.3$ (.236 $\pm .012$ )	3.2 $\pm 0.3$ (.126 $\pm .012$ )	1.5 (.059)	2.2 (.087)	1.3 (.051)	0.05 (.002)	0.13 (.005)	3.1 (.122)	2.8 (.110)	2.4 (.094)	
V	7343-20	7.3 $\pm 0.3$ (.287 $\pm .012$ )	4.3 $\pm 0.3$ (.169 $\pm .012$ )	2.0 (.079)	2.4 (.094)	1.3 (.051)	0.05 (.002)	0.13 (.005)	3.8 (.150)	3.5 (.138)	3.5 (.138)	

Notes: 1. Metric dimensions govern  
2. (Ref) Dimensions provided for reference only  
3. No dimensions provided for B,P or R because low profile cases do not have a bevel or a notch.

### T494 ORDERING INFORMATION



Solid Tantalum Surface Mount



# SOLID TANTALUM CHIP CAPACITORS

T494 SERIES—Low ESR, Industrial Grade

## T494 RATINGS & PART NUMBER REFERENCE

Capacitance µF	Case Size	KEMET Part Number	DC Leakage µA @ 25°C Max	DF % @ +25°C 120 Hz Max	ESR Ω @ +25°C 100 kHz Max
<b>2.5 Volt Rating at +85°C (1.7 Volt Rating at +125°C)</b>					
100.0	T	T494T107(1)2R5A(2)	2.5	24.0	3.5
220.0	D	T494D227(1)2R5A(2)	5.5	8.0	0.2
<b>3 Volt Rating at +85°C (2 Volt Rating at +125°C)</b>					
#33.0	A	T494A336(1)003A(2)	1.0	6.0	2.0
<b>4 Volt Rating at +85°C (2.7 Volt Rating at +125°C)</b>					
3.3	A	T494A335(1)004A(2)	0.5	6.0	4.0
4.7	A	T494A475(1)004A(2)	0.5	6.0	3.5
6.8	A	T494A685(1)004A(2)	0.5	6.0	3.0
6.8	S	T494S685(1)004A(2)	0.5	6.0	7.0
10.0	B	T494B106(1)004A(2)	0.5	6.0	1.2
10.0	A	T494A106(1)004A(2)	0.5	6.0	2.0
#10.0	S	T494S106(1)004A(2)	0.5	6.0	9.0
#10.0	R	T494R106M004A(2)	0.5	8.0	6.0
15.0	B	T494B156(1)004A(2)	0.6	6.0	1.2
15.0	A	T494A156(1)004A(2)	0.6	6.0	1.5
15.0	T	T494T156(1)004A(2)	0.6	6.0	2.0
#15.0	S	T494S156M004A(2)	0.6	10.0	9.0
22.0	C	T494C226(1)004A(2)	0.9	6.0	0.5
22.0	B	T494B226(1)004A(2)	0.9	6.0	0.6
#22.0	A	T494A226(1)004A(2)	0.9	6.0	1.5
#22.0	S	T494S226M004A(2)	0.9	10.0	8.0
#22.0	T	T494T226(1)004A(2)	0.9	6.0	2.5
33.0	C	T494C336(1)004A(2)	1.3	6.0	0.5
33.0	U	T494U336(1)004A(2)	1.3	6.0	0.6
33.0	B	T494B336(1)004A(2)	1.3	6.0	0.5
#33.0	A	T494A336(1)004A(2)	1.3	6.0	3.0
#33.0	T	T494T336M004A(2)	1.3	8.0	3.5
47.0	C	T494C476(1)004A(2)	1.9	6.0	0.5
47.0	U	T494U476(1)004A(2)	1.9	6.0	0.6
#47.0	B	T494B476(1)004A(2)	1.9	6.0	0.5
#47.0	A	T494A476M004A(2)	1.9	12.0	2.0
#47.0	T	T494T476M004A(2)	1.9	12.0	4.0
68.0	D	T494D686(1)004A(2)	2.7	6.0	0.20
68.0	C	T494C686(1)004A(2)	2.7	6.0	0.25
#68.0	U	T494U686(1)004A(2)	2.7	6.0	0.60
#68.0	B	T494B686(1)004A(2)	2.7	6.0	2.00
#68.0	A	T494A686(1)004A(2)	2.8	30.0	3.00
100.0	D	T494D107(1)004A(2)	4.0	8.0	0.20
#100.0	C	T494C107(1)004A(2)	4.0	8.0	0.20
#100.0	U	T494U107(1)004A(2)	4.0	10.0	1.00
#100.0	B	T494B107M004A(2)	4.0	8.0	0.65
†100.0	A	T494A107M004A(2)	4.0	30.0	3.00
†100.0	T	T494T107M004A(2)	4.0	30.0	4.50
150.0	D	T494D157(1)004A(2)	6.0	8.0	0.15
150.0	V	T494V157(1)004A(2)	6.0	8.0	0.20
#150.0	C	T494C157(1)004A(2)	6.0	8.0	0.30
†150.0	B	T494B157M004A(2)	6.0	12.0	1.00
#220.0	V	T494V227(1)004A(2)	8.8	8.0	0.30
#220.0	B	T494B227M004A(2)	8.8	8.0	0.40
#330.0	D	T494D337(1)004A(2)	13.2	8.0	0.15
#330.0	C	T494C337(1)004A(2)	13.2	10.0	0.09
†330.0	V	T494V337(1)004A(2)	13.2	12.0	0.30
#470.0	X	T494X477(1)004A(2)	18.8	8.0	0.15
#470.0	D	T494D477(1)004A(2)	18.8	8.0	0.15
#680.0	X	T494X687M004A(2)	27.2	12.0	0.10
#680.0	D	T494D687M004A(2)	27.2	12.0	0.15
#1000.0	X	T494X108(1)004A(2)	40.0	12.0	0.10
#1000.0	E	T494E108M004A(2)	40.0	15.0	0.08
<b>**6.3 Volt Rating at +85°C (4 Volt Rating at +125°C)</b>					
2.2	R	T494R225(1)006A(2)	0.5	6.0	20.0
2.2	A	T494A225(1)006A(2)	0.5	6.0	6.0
3.3	A	T494A335(1)006A(2)	0.5	6.0	6.0
4.7	A	T494A475(1)006A(2)	0.5	6.0	3.5
4.7	S	T494S475(1)006A(2)	0.5	6.0	8.0
6.8	B	T494B685(1)006A(2)	0.5	6.0	1.2
6.8	A	T494A685(1)006A(2)	0.5	6.0	2.0
#6.8	S	T494S685(1)006A(2)	0.5	6.0	9.0
#6.8	R	T494R685(1)006A(2)	0.5	8.0	10.0
10.0	B	T494B106(1)006A(2)	0.6	6.0	1.0
10.0	A	T494A106(1)006A(2)	0.6	6.0	2.0
10.0	T	T494T106(1)006A(2)	0.6	6.0	1.2
#10.0	S	T494S106M006A(2)	0.6	10.0	9.0
#10.0	R	T494R106M006A(2)	0.6	8.0	6.0

Capacitance µF	Case Size	KEMET Part Number	DC Leakage µA @ 25°C Max	DF % @ +25°C 120 Hz Max	ESR Ω @ +25°C 100 kHz Max
<b>**6.3 Volt Rating at +85°C (4 Volt Rating at +125°C)</b>					
15.0	C	T494C156(1)006A(2)	0.9	6.0	0.6
15.0	B	T494B156(1)006A(2)	0.9	6.0	0.7
#15.0	A	T494A156(1)006A(2)	0.9	6.0	2.0
#15.0	T	T494T156(1)006A(2)	0.9	6.0	2.5
#15.0	S	T494S156M006A(2)	0.9	10.0	10.0
22.0	C	T494C226(1)006A(2)	1.4	6.0	0.5
22.0	U	T494U226(1)006A(2)	1.4	6.0	0.8
22.0	B	T494B226(1)006A(2)	1.4	6.0	0.6
#22.0	A	T494A226(1)006A(2)	1.4	6.0	3.0
#22.0	T	T494T226M006A(2)	1.4	8.0	3.5
33.0	C	T494C336(1)006A(2)	2.0	6.0	0.3
33.0	U	T494U336(1)006A(2)	2.0	6.0	0.6
#33.0	B	T494B336(1)006A(2)	2.0	6.0	0.6
#33.0	A	T494A336(1)006A(2)	2.0	12.0	2.0
#33.0	T	T494T336M006A(2)	2.0	12.0	4.0
47.0	D	T494D476(1)006A(2)	2.9	6.0	0.22
47.0	C	T494C476(1)006A(2)	2.9	6.0	0.25
#47.0	U	T494U476(1)006A(2)	2.9	6.0	0.60
#47.0	B	T494B476(1)006A(2)	2.9	6.0	0.50
†47.0	A	T494A476M006A(2)	3.0	12.0	2.50
47.0	T	T494T476(1)006A(2)	3.0	24.0	4.00
68.0	D	T494D686(1)006A(2)	4.1	6.0	0.20
#68.0	C	T494C686(1)006A(2)	4.1	6.0	0.20
#68.0	U	T494U686(1)006A(2)	4.1	10.0	1.00
#68.0	B	T494B686M006A(2)	4.1	8.0	0.65
#68.0	A	T494A686(1)006A(2)	5.0	30.0	3.00
100.0	D	T494D107(1)006A(2)	6.0	8.0	0.15
100.0	V	T494V107(1)006A(2)	6.0	8.0	0.20
#100.0	C	T494C107(1)006A(2)	6.0	8.0	0.30
#100.0	U	T494U107M006A(2)	6.0	10.0	1.20
#100.0	B	T494B107(1)006A(2)	6.0	15.0	1.50
150.0	D	T494D157(1)006A(2)	9.0	8.0	0.15
#150.0	C	T494C157M006A(2)	9.0	8.0	0.30
#150.0	V	T494V157(1)006A(2)	9.0	8.0	0.30
220.0	X	T494X227(1)006A(2)	13.2	8.0	0.15
#220.0	D	T494D227(1)006A(2)	13.2	8.0	0.15
#220.0	C	T494C227M006A(2)	13.2	10.0	0.30
#220.0	V	T494V227M006A(2)	13.2	12.0	0.30
#330.0	X	T494X337(1)006A(2)	19.8	8.0	0.15
#330.0	D	T494D337(1)006A(2)	19.8	8.0	0.15
#330.0	E	T494E337(1)006A(2)	20.8	8.0	0.25
#470.0	X	T494X477(1)006A(2)	28.2	10.0	0.10
#470.0	D	T494D477M006A(2)	28.2	12.0	0.15
#470.0	E	T494E477(1)006A(2)	29.6	10.0	0.20
#680.0	E	T494E687M006A(2)	40.8	12.0	0.10
<b>10 Volt Rating at +85°C (7 Volt Rating at +125°C)</b>					
1.5	A	T494A155(1)010A(2)	0.5	6.0	6.0
2.2	B	T494B225(1)010A(2)	0.5	6.0	1.5
2.2	A	T494A225(1)010A(2)	0.5	6.0	6.0
3.3	A	T494A335(1)010A(2)	0.5	6.0	4.0
3.3	S	T494S335(1)010A(2)	0.5	6.0	9.0
#3.3	R	T494R335(1)010A(2)	0.3	8.0	10.0
4.7	B	T494B475(1)010A(2)	0.5	6.0	1.5
4.7	A	T494A475(1)010A(2)	0.5	6.0	3.0
#4.7	S	T494S475(1)010A(2)	0.5	6.0	9.0
#4.7	R	T494R475M010A(2)	0.5	8.0	8.0
6.8	B	T494B685(1)010A(2)	0.7	6.0	1.2
6.8	A	T494A685(1)010A(2)	0.7	6.0	3.0
6.8	T	T494T685(1)010A(2)	0.7	6.0	2.0
#6.8	S	T494S685M010A(2)	0.7	10.0	9.0
10.0	C	T494C106(1)010A(2)	1.0	6.0	0.6
10.0	B	T494B106(1)010A(2)	1.0	6.0	0.8
#10.0	A	T494A106(1)010A(2)	1.0	6.0	1.8
#10.0	T	T494T106(1)010A(2)	1.0	6.0	3.5
#10.0	S	T494S106M010A(2)	1.0	10.0	12.0
15.0	C	T494C156(1)010A(2)	1.5	6.0	0.5
15.0	U	T494U156(1)010A(2)	1.5	6.0	0.8
15.0	B	T494B156(1)010A(2)	1.5	6.0	0.7
#15.0	A	T494A156(1)010A(2)	1.5	8.0	4.0
#15.0	T	T494T156M010A(2)	1.5	8.0	3.5

- (1) To complete KEMET Part Number, insert M for ±20% tolerance or K for ±10% tolerance.  
 (2) To complete KEMET Part Number, insert H, G, or T lead material designation as shown on page 27.  
 \*Extended Values

\*\*6 Volt product equivalent to 6.3 volt product.  
 #Maximum Capacitance Change @ 125°C=+15%.  
 †Maximum Capacitance Change @ 125°C=+20%.

Higher voltage ratings and tighter tolerance product may be substituted within the same size at KEMET's option.  
 Voltage substitutions will be marked with the higher voltage rating.

# SOLID TANTALUM CHIP CAPACITORS



T494 SERIES—Low ESR, Industrial Grade

## T494 RATINGS & PART NUMBER REFERENCE

Capacitance µF	Case Size	KEMET Part Number	DC Leakage µA @ 25°C Max	DF % @ +25°C 120 Hz Max	ESR Ω @ +25°C 100 kHz Max
<b>10 Volt Rating at +85°C (7 Volt Rating at +125°C)</b>					
22.0	C	T494C226(1)010A(2)	2.2	6.0	0.4
22.0	U	T494U226(1)010A(2)	2.2	6.0	0.8
#22.0	B	T494B226(1)010A(2)	2.2	6.0	0.7
#22.0	A	T494A226M010A(2)	2.2	10.0	4.5
#22.0	T	T494T226M010A(2)	2.2	12.0	6.0
33.0	D	T494D336(1)010A(2)	3.3	6.0	0.25
33.0	V	T494V336(1)010A(2)	3.3	6.0	0.30
33.0	C	T494C336(1)010A(2)	3.3	6.0	0.30
#33.0	U	T494U336(1)010A(2)	3.3	6.0	0.60
#33.0	T	T494T336(1)010A(2)	3.3	24.0	3.75
#33.0	B	T494B336(1)010A(2)	3.3	6.0	1.40
#33.0	A	T494A336(1)010A(2)	3.3	15.0	4.00
47.0	D	T494D476(1)010A(2)	4.7	6.0	0.22
47.0	V	T494V476(1)010A(2)	4.7	6.0	0.30
#47.0	C	T494C476(1)010A(2)	4.7	6.0	0.30
#47.0	U	T494U476(1)010A(2)	4.7	10.0	1.20
#47.0	B	T494B476M010A(2)	4.7	8.0	0.65
68.0	D	T494D686(1)010A(2)	6.8	6.0	0.20
#68.0	C	T494C686(1)010A(2)	6.8	6.0	0.30
68.0	V	T494V686(1)010A(2)	6.8	6.0	0.30
#68.0	U	T494U686M010A(2)	6.8	10.0	1.20
#68.0	B	T494B686M010A(2)	6.8	10.0	1.50
100.0	D	T494D107(1)010A(2)	10.0	8.0	0.15
#100.0	C	T494C107(1)010A(2)	10.0	8.0	0.20
#100.0	V	T494V107(1)010A(2)	10.0	8.0	0.40
150.0	X	T494X157(1)010A(2)	15.0	8.0	0.15
#150.0	D	T494D157(1)010A(2)	15.0	8.0	0.15
#150.0	C	T494C157(1)010A(2)	15.0	10.0	0.70
#150.0	V	T494V157M010A(2)	15.0	8.0	0.30
#220.0	X	T494X227(1)010A(2)	22.0	8.0	0.15
#220.0	D	T494D227(1)010A(2)	22.0	8.0	0.15
#220.0	V	T494V227(1)010A(2)	22.0	12.0	0.50
#330.0	X	T494X337(1)010A(2)	33.0	10.0	0.10
#330.0	D	T494D337M010A(2)	33.0	10.0	0.15
#330.0	E	T494E337(1)010A(2)	33.0	10.0	0.25
#470.0	X	T494X477M010A(2)	47.0	10.0	0.10
#470.0	E	T494E477M010A(2)	47.0	12.0	0.10
<b>16 Volt Rating at +85°C (10 Volt Rating at +125°C)</b>					
1.0	A	T494A105(1)016A(2)	0.5	4.0	6.0
1.5	A	T494A155(1)016A(2)	0.5	6.0	6.0
2.2	A	T494A225(1)016A(2)	0.5	6.0	4.0
2.2	S	T494S225(1)016A(2)	0.5	6.0	10.0
#2.2	R	T494R225(1)016A(2)	0.5	8.0	20.0
3.3	B	T494B335(1)016A(2)	0.5	6.0	2.0
3.3	A	T494A335(1)016A(2)	0.5	6.0	4.0
4.7	B	T494B475(1)016A(2)	0.8	6.0	1.5
4.7	A	T494A475(1)016A(2)	0.8	6.0	3.0
4.7	T	T494T475(1)016A(2)	0.8	6.0	3.0
6.8	C	T494C685(1)016A(2)	1.1	6.0	0.8
6.8	B	T494B685(1)016A(2)	1.1	6.0	1.2
#6.8	A	T494A685(1)016A(2)	1.1	6.0	3.0
10.0	C	T494C106(1)016A(2)	1.6	6.0	0.6
10.0	U	T494U106(1)016A(2)	1.6	6.0	1.0
10.0	B	T494B106(1)016A(2)	1.6	6.0	0.8
#10.0	A	T494A106(1)016A(2)	1.6	8.0	3.0
#10.0	T	T494T106(1)016A(2)	1.6	8.0	6.0
15.0	C	T494C156(1)016A(2)	2.4	6.0	0.4
15.0	U	T494U156(1)016A(2)	2.4	6.0	0.8
#15.0	B	T494B156(1)016A(2)	2.4	6.0	0.8
22.0	D	T494D226(1)016A(2)	3.6	6.0	0.25
22.0	C	T494C226(1)016A(2)	3.6	6.0	0.35
#22.0	U	T494U226(1)016A(2)	3.6	10.0	1.80
#22.0	B	T494B226(1)016A(2)	3.6	6.0	1.00
33.0	D	T494D336(1)016A(2)	5.3	6.0	0.25
#33.0	C	T494C336(1)016A(2)	5.3	6.0	0.30
#33.0	U	T494U336(1)016A(2)	5.3	12.0	2.20
47.0	D	T494D476(1)016A(2)	7.5	6.0	0.2
47.0	V	T494V476(1)016A(2)	7.5	6.0	0.3
#47.0	C	T494C476(1)016A(2)	7.5	6.0	0.5
68.0	D	T494D686(1)016A(2)	10.9	6.0	0.15
#68.0	V	T494V686(1)016A(2)	10.9	6.0	0.5
#68.0	C	T494C686(1)016A(2)	10.9	12.0	1.0

Capacitance µF	Case Size	KEMET Part Number	DC Leakage µA @ 25°C Max	DF % @ +25°C 120 Hz Max	ESR Ω @ +25°C 100 kHz Max
<b>16 Volt Rating at +85°C (10 Volt Rating at +125°C)</b>					
100.0	X	T494X107(1)016A(2)	16.0	8.0	0.15
#100.0	D	T494D107(1)016A(2)	16.0	8.0	0.15
†100.0	V	T494V107(1)016A(2)	16.0	12.0	0.5
#150.0	X	T494X157(1)016A(2)	24.0	8.0	0.15
#150.0	D	T494D157(1)016A(2)	24.0	12.0	0.4
#220.0	X	T494X227(1)016A(2)	35.2	10.0	0.4
#220.0	E	T494E227(1)016A(2)	35.2	7.2	0.5
<b>20 Volt Rating at +85°C (13 Volt Rating at +125°C)</b>					
0.68	A	T494A684(1)020A(2)	0.5	4.0	8.0
1.0	A	T494A105(1)020A(2)	0.5	4.0	5.5
1.0	S	T494S105(1)020A(2)	0.5	6.0	10.0
†1.0	R	T494R105(1)020A(2)	0.2	6.0	15.0
1.5	A	T494A155(1)020AS(2)	0.5	6.0	4.5
1.5	S	T494S155(1)020A(2)	0.5	6.0	9.0
2.2	B	T494B225(1)020A(2)	0.5	6.0	1.5
2.2	A	T494A225(1)020A(2)	0.5	6.0	4.0
2.2	R	T494R225(1)020A(2)	0.4	8.0	6.0
3.3	B	T494B335(1)020A(2)	0.7	6.0	1.3
#3.3	A	T494A335(1)020A(2)	0.7	6.0	4.0
3.3	T	T494T335(1)020A(2)	0.7	6.0	4.0
4.7	C	T494C475(1)020A(2)	1.0	6.0	0.6
4.7	B	T494B475(1)020A(2)	1.0	6.0	1.0
#4.7	A	T494A475(1)020A(2)	1.0	6.0	3.0
6.8	C	T494C685(1)020A(2)	1.4	6.0	0.6
6.8	U	T494U685(1)020A(2)	1.4	6.0	1.4
#6.8	B	T494B685(1)020A(2)	1.4	6.0	1.0
#6.8	A	T494A685M020A(2)	1.4	8.0	3.0
10.0	C	T494C106(1)020A(2)	2.0	6.0	0.5
10.0	U	T494U106(1)020A(2)	2.0	6.0	0.8
#10.0	B	T494B106(1)020A(2)	2.0	6.0	1.0
#10.0	A	T494A106M020A(2)	2.0	10.0	3.0
15.0	D	T494D156(1)020A(2)	3.0	6.0	0.35
15.0	C	T494C156(1)020A(2)	3.0	6.0	0.40
22.0	D	T494D226(1)020A(2)	4.4	6.0	0.3
22.0	V	T494V226(1)020A(2)	4.4	6.0	0.4
#22.0	C	T494C226(1)020A(2)	4.4	6.0	0.4
#22.0	B	T494B226(1)020A(2)	4.4	8.0	3.0
33.0	D	T494D336(1)020A(2)	6.6	6.0	0.25
#33.0	C	T494C336M020A(2)	6.6	6.0	0.40
†33.0	V	T494V336(1)020A(2)	6.6	8.0	0.40
47.0	C	T494C476M020A(2)	9.4	10.0	0.80
47.0	D	T494D476(1)020A(2)	9.4	6.0	0.20
68.0	X	T494X686(1)020A(2)	13.6	6.0	0.20
#68.0	D	T494D686(1)020A(2)	13.6	8.0	0.20
#100.0	X	T494X107(1)020A(2)	20.0	8.0	0.15
#100.0	E	T494E107(1)020A(2)	20.0	8.0	0.30
#150.0	X	T494X157(1)020A(2)	30.0	10.0	0.30
<b>25 Volt Rating at +85°C (17 Volt Rating at +125°C)</b>					
0.33	A	T494A334(1)025A(2)	0.5	4.0	10.0
0.47	A	T494A474(1)025A(2)	0.5	4.0	9.0
0.68	A	T494A684(1)025A(2)	0.5	4.0	6.0
1.0	B	T494B105(1)025A(2)	0.5	4.0	2.0
1.0	A	T494A105(1)025A(2)	0.5	4.0	4.0
1.5	B	T494B155(1)025A(2)	0.5	6.0	1.5
1.5	A	T494A155(1)025A(2)	0.5	6.0	3.0
1.5	R	T494R155(1)025A(2)	0.4	8.0	6.0
2.2	C	T494C225(1)025A(2)	0.6	6.0	2.2
2.2	B	T494B225(1)025A(2)	0.6	6.0	1.2
3.3	C	T494C335(1)025A(2)	0.9	6.0	1.2
3.3	B	T494B335(1)025A(2)	0.9	6.0	2.0
4.7	C	T494C475(1)025A(2)	1.2	6.0	0.6
#4.7	B	T494B475(1)025A(2)	1.2	6.0	1.0
#4.7	A	T494A475M025A(2)	1.2	8.0	3.0
6.8	C	T494C685(1)025A(2)	1.7	6.0	0.6
6.8	B	T494B685(1)025A(2)	1.7	8.0	2.0
10.0	D	T494D106(1)025A(2)	2.5	6.0	0.4
10.0	C	T494C106(1)025A(2)	2.5	6.0	0.6
10.0	B	T494B106(1)025A(2)	2.5	8.0	3.0
15.0	D	T494D156(1)025A(2)	3.8	6.0	0.35
#15.0	C	T494C156(1)025A(2)	3.8	6.0	0.90
#15.0	B	T494B156(1)025A(2)	3.8	8.0	3.00
22.0	D	T494D226(1)025A(2)	5.5	6.0	0.3
22.0	C	T494C226(1)025A(2)	5.5	6.0	1.0
22.0	V	T494V226(1)025A(2)	5.5	6.0	0.5
33.0	X	T494X336(1)025A(2)	8.3	6.0	0.3
#33.0	D	T494D336(1)025A(2)	8.3	6.0	0.4
#33.0	C	T494C336(1)025A(2)	8.3	10.0	1.0
#47.0	X	T494X476(1)025A(2)	11.8	6.0	0.3
†47.0	D	T494D476(1)025A(2)	11.8	10.0	0.2
†68.0	X	T494X686M025A(2)	17.0	8.0	0.3
†68.0	D	T494D686M025A(2)	17.0	10.0	0.5
†100.0	X	T494X107M025A(2)	25.0	8.0	0.25

(1) To complete KEMET Part Number, insert M for ±20% tolerance or K for ±10% tolerance.  
 (2) To complete KEMET Part Number, insert H, G, or T lead material designation as shown on page 27.

\*Extended Values

\*\*6 Volt product equivalent to 6.3 volt product.

#Maximum Capacitance Change @ 125°C=+15%.

†Maximum Capacitance Change @ 125°C=+20%.

Higher voltage ratings and tighter tolerance product may be substituted within the same size at KEMET's option. Voltage substitutions will be marked with the higher voltage rating.

Solid Tantalum Surface Mount

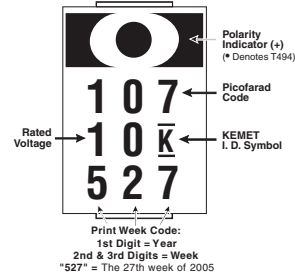
# SOLID TANTALUM CHIP CAPACITORS

T494 SERIES—Low ESR, Industrial Grade

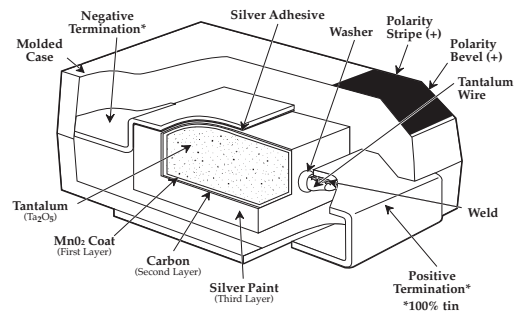
## T494 RATINGS & PART NUMBER REFERENCE

Capacitance µF	Case Size	KEMET Part Number	DC Leakage µA @ 25°C Max	DF % @ +25°C 120 Hz Max	ESR Ω @ +25°C 100 kHz Max
<b>35 Volt Rating at +85°C (23 Volt Rating at +125°C)</b>					
0.10	A	T494A104(1)035A(2)	0.5	4.0	10.0
0.15	A	T494A154(1)035A(2)	0.5	4.0	6.0
0.22	A	T494A224(1)035A(2)	0.5	4.0	6.0
0.33	A	T494A334(1)035A(2)	0.5	4.0	6.0
0.47	B	T494B474(1)035A(2)	0.5	4.0	2.5
0.47	A	T494A474(1)035A(2)	0.5	4.0	4.0
0.68	B	T494B684(1)035A(2)	0.5	4.0	2.5
0.68	A	T494A684(1)035A(2)	0.5	4.0	6.0
1.0	B	T494B105(1)035A(2)	0.5	4.0	2.0
1.0	A	T494A105(1)035A(2)	0.5	4.0	6.0
1.5	C	T494C155(1)035A(2)	0.5	6.0	2.5
1.5	B	T494B155(1)035A(2)	0.5	6.0	3.0
2.2	C	T494C225(1)035A(2)	0.8	6.0	1.5
2.2	B	T494B225(1)035A(2)	0.8	6.0	2.5
3.3	C	T494C335(1)035A(2)	1.2	6.0	0.8
#3.3	B	T494B335(1)035A(2)	1.2	6.0	1.3
4.7	D	T494D475(1)035A(2)	1.7	6.0	0.7
4.7	C	T494C475(1)035A(2)	1.7	6.0	0.7
6.8	D	T494D685(1)035A(2)	2.4	6.0	0.5
6.8	C	T494C685(1)035A(2)	2.4	6.0	0.9
10.0	D	T494D106(1)035A(2)	3.5	6.0	0.4
#10.0	C	T494C106M035A(2)	3.5	6.0	1.2
#10.0	*V	T494V106(1)035A(2)	3.5	6.0	0.8
15.0	X	T494X156(1)035A(2)	5.3	6.0	0.30
15.0	D	T494D156(1)035A(2)	5.3	6.0	0.35
#22.0	X	T494X226(1)035A(2)	7.7	6.0	0.3
#22.0	D	T494D226(1)035A(2)	7.7	6.0	0.4
#33.0	D	T494D336(1)035A(2)	11.6	6.0	0.6
#33.0	X	T494X336(1)035A(2)	11.6	6.0	0.6
†47.0	X	T494X476(1)035A(2)	16.5	8.0	0.5
†47.0	E	T494E476(1)035A(2)	16.5	10.0	0.3
<b>50 Volt Rating at +85°C (33 Volt Rating at +125°C)</b>					
0.10	A	T494A104(1)050A(2)	0.5	4.0	10.0
0.15	B	T494B154(1)050A(2)	0.5	4.0	10.0
0.15	A	T494A154(1)050A(2)	0.5	4.0	10.0
0.22	B	T494B224(1)050A(2)	0.5	4.0	10.0
0.33	B	T494B334(1)050A(2)	0.5	4.0	2.5
0.47	C	T494C474(1)050A(2)	0.5	4.0	1.8
0.47	B	T494B474(1)050A(2)	0.5	4.0	2.0
0.68	C	T494C684(1)050A(2)	0.5	4.0	1.6
0.68	B	T494B684(1)050A(2)	0.5	4.0	3.0
1.0	C	T494C105(1)050A(2)	0.5	4.0	1.6
1.0	B	T494B105(1)050A(2)	0.5	6.0	4.0
#1.0	V	T494V105M050A(2)	0.5	4.0	4.0
1.5	D	T494D155(1)050A(2)	0.8	6.0	1.0
1.5	C	T494C155(1)050A(2)	0.8	6.0	1.5
2.2	D	T494D225(1)050A(2)	1.1	6.0	0.8
2.2	C	T494C225(1)050A(2)	1.1	6.0	1.5
3.3	D	T494D335(1)050A(2)	1.7	6.0	0.8
4.7	D	T494D475(1)050A(2)	2.4	6.0	0.6
6.8	X	T494X685(1)050A(2)	3.5	6.0	0.5
#6.8	D	T494D685(1)050A(2)	3.4	6.0	0.7
#10.0	X	T494X106M050A(2)	5.0	6.0	0.4
#10.0	D	T494D106(1)050A(2)	5.0	6.0	0.7
†15.0	X	T494X156(1)050A(2)	7.5	6.0	0.4
22.0	X	T494X226(1)050A(2)	11.0	10.0	0.5

## CAPACITOR MARKINGS T494 Series — All Case Sizes



## CONSTRUCTION



(1) To complete KEMET Part Number, insert M for ±20% tolerance or K for ±10% tolerance.  
 (2) To complete KEMET Part Number, insert H, G, or T lead material designation as shown on page 27.  
 \*Extended Values

\*\*6 Volt product equivalent to 6.3 volt product.  
 #Maximum Capacitance Change @ 125°C=+15%.  
 †Maximum Capacitance Change @ 125°C=+20%.

Higher voltage ratings and tighter tolerance product may be substituted within the same size at KEMET's option.  
 Voltage substitutions will be marked with the higher voltage rating.