

SOLID TANTALUM CHIP CAPACITORS

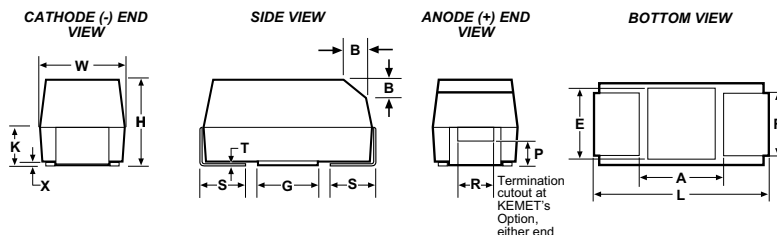
T491 SERIES - Precision Molded Chip



FEATURES

- Meets or Exceeds EIA Standard 535BAAC
- 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
- Halogen Free Epoxy
- Capacitance: 0.1 μ F to 1000 μ F
- Tolerance: $\pm 10\%$, $\pm 20\%$
- Voltage: 3-50 VDC
- Extended Range Values
- Low Profile Case Sizes
- RoHS Compliance
- Lead Free Terminations (See www.kemet.com for transition information)

CAPACITOR OUTLINE DRAWING



STANDARD T491 DIMENSIONS

Millimeters (inches)

| CASE SIZE | | COMPONENT | | | | | | | | | | | | | |
|-----------|---------|------------------------------------|------------------------------------|------------------------------------|-------------------------------|------------------------------|------------------------------|------------------------------------|--------------------------------------|---------------|---------------|----------------|---------------|-----------------|-----------------|
| KEMET | EIA | L* | W* | H* | K* ± 0.20 $\pm (.008)$ | F* ± 0.1 $\pm (.004)$ | S* ± 0.3 $\pm (.012)$ | B ± 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) | 0.9 (.035) | 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) | 0.8 (.031) | 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) | 1.1 (.043) | 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) | 1.4 (.055) | 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) | 2.5 (.098) | 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) | 1.5 (.059) | 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) | 2.3 (.091) | 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) | 2.3 (.091) | 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-C-55365/8 Specified Dimensions
 ** Round Glue Pad: 2.9 \pm 0.1mm (0.114" \pm 0.004") in diameter at KEMET's option

LOW PROFILE T491 DIMENSIONS

Millimeters (inches)

| CASE SIZE | | COMPONENT | | | | | | | | | | |
|-----------|---------|------------------------------------|------------------------------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|
| KEMET | EIA | L | W | H Max. | K Min. | F ± 0.1 | S ± 0.3 | 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) | 0.3 (.012) | 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) | 0.3 (.012) | 1.2 (.047) | 0.8 (.031) | 0.05 (.002) | 0.13 (.005) | 0.8 (.031) | 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) | 0.3 (.012) | 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) | 0.5 (.020) | 2.2 (.087) | 1.3 (.051) | 0.05 (.002) | 0.13 (.005) | 2.5 (.098) | 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) | 0.9 (.035) | 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.

T491 ORDERING INFORMATION

T **491** **B** **105** **M** **035** **A** **S***

Tantalum ————

Series ————
T491 - Precision Molded

Case Size ————
A,B,C,D,E,R,S,T,U,V,X

Capacitance Picofarad Code ————
First two digits represent significant figures.
Third digit specifies number of zeros to follow.

Lead Material ————
S = 100% Tin (Sn) Plated
H = Standard Solder - Coated (90% Sn 10% Pb)
G = Gold Plated (A,B,C,D,X only)
T = 100% Tin (Sn) Plated

Failure Rate ————
A = Not Applicable

Voltage ————
As shown

Capacitance Tolerance ————
M = $\pm 20\%$; K = $\pm 10\%$

***Part number example: T491B105M035AS (14 digits - no spaces). See www.kemet.com for Pb Free transition.**



SOLID TANTALUM CHIP CAPACITORS

T491 SERIES—Precision Molded Chip

T491 TANTALUM CHIP CAPACITANCE VALUES Case Size by Capacitance and Voltage

| Capacitance | | Rated Voltage @ +85°C | | | | | | | | | |
|-------------|------|-----------------------|---|----------------|----------------|--------------|--------------|-------|-------|-------|-----|
| µF | Code | 2.5 | 3 | 4 | 6 | 10 | 16 | 20 | 25 | 35 | 50 |
| 0.10 | 104 | | | | | | | | | A | A |
| 0.15 | 154 | | | | | | | | | A | A/B |
| 0.22 | 224 | | | | | | | | | A | B |
| 0.33 | 334 | | | | | | | | A | A | B |
| 0.47 | 474 | | | | | | | | A | A/B | B/C |
| 0.68 | 684 | | | | | | | A | A | A/B | B/C |
| 1.0 | 105 | | | | | | A | R/S/A | A/B | A/B | V/C |
| 1.5 | 155 | | | | | A | A | S/A | A/B | B/C | C/D |
| 2.2 | 225 | | | | R/A | A/B | R/S/A | A/B | B/C | B/C | C/D |
| 3.3 | 335 | | | A | A | R/S/A | A/B | T/A/B | B/C | B/C | D |
| 4.7 | 475 | | | A | S/A | A/B R/S | A/B/T | A/B/C | B/C | C/D | D |
| 6.8 | 685 | | | S/A | R/S A/B | S/T A/B | A/B/C | U/B/C | B/C | C/D | D/X |
| 10.0 | 106 | | | R/S A/B | R/S/T A/B | S/T/A B/C | B/C/U T/A | U/B/C | C/D | V/C/D | X |
| 15.0 | 156 | | | S/T A/B | S/T A/B/C | T/U A/B/C | U/B/C | C/D | C/D | D/X | X |
| 22.0 | 226 | | | S/T A/B/C | U/T A/B/C | T/U A/B/C | U/B C/D | V/C/D | V/C/D | D/X | |
| 33.0 | 336 | | A | T/U A/B/C | T/U A/B/C | U/V B/C/D | U/C/D | V/C/D | D/X | X | |
| 47.0 | 476 | | | T/U A/B/C | T/U/A B/C/D | U/V B/C/D | V/C/D | D | D/X | X/E | |
| 68.0 | 686 | | | U/A B/C/D | U/B C/D | U/V B/C/D | V/D | D/X | X | | |
| 100.0 | 107 | T | | T/U/A B/C/D | U/V B/C/D | V/C/D | V/D/X | X | | | |
| 150.0 | 157 | | | V/B C/D | V/C/D | V/C D/X | D/X | | | | |
| 220.0 | 227 | | | V | V/C D/X | V/D/X | X | | | | |
| 330.0 | 337 | | | V/C/D | D/X | D/X | | | | | |
| 470.0 | 477 | | | D/X | D/X | X/E | | | | | |
| 680.0 | 687 | | | D/X | E | | | | | | |
| 1000.0 | 108 | | | X/E | | | | | | | |



SOLID TANTALUM CHIP CAPACITORS

T491 SERIES—Precision Molded Chip

T491 RATINGS & PART NUMBER REFERENCE

| Capacitance µF | Case Size | KEMET Part Number | DC Leakage mA @ 25°C Max | DF % @ +25°C 120 Hz Max | ESR W @ +25°C 100 kHz Max |
|---|--------------|----------------------|-----------------------------------|----------------------------------|------------------------------------|
| 10 Volt Rating at +85°C (7 Volt Rating at +125°C) | | | | | |
| 22.0 | C | T491C226(1)010A(2) | 2.2 | 6.0 | 1.8 |
| 22.0 | U | T491U226(1)010A(2) | 2.2 | 6.0 | 1.8 |
| #22.0 | B | T491B226(1)010A(2) | 2.2 | 6.0 | 3.0 |
| #22.0 | *A | T491A226M010A(2) | 2.2 | 10.0 | 6.0 |
| #22.0 | *T | T491T226M010A(2) | 2.2 | 12.0 | 8.0 |
| 33.0 | D | T491D336(1)010A(2) | 3.3 | 6.0 | 0.8 |
| 33.0 | V | T491V336(1)010A(2) | 3.3 | 6.0 | 0.7 |
| 33.0 | C | T491C336(1)010A(2) | 3.3 | 6.0 | 1.6 |
| #33.0 | U | T491U336(1)010A(2) | 3.3 | 6.0 | 1.8 |
| #33.0 | B | T491B336(1)010A(2) | 3.3 | 6.0 | 3.5 |
| 47.0 | D | T491D476(1)010A(2) | 4.7 | 6.0 | 0.8 |
| 47.0 | V | T491V476(1)010A(2) | 4.7 | 6.0 | 0.7 |
| #47.0 | C | T491C476(1)010A(2) | 4.7 | 6.0 | 1.2 |
| #47.0 | *U | T491U476(1)010A(2) | 4.7 | 10.0 | 2.2 |
| #47.0 | *B | T491B476M010A(2) | 4.7 | 8.0 | 1.0 |
| 68.0 | D | T491D686(1)010A(2) | 6.8 | 6.0 | 0.8 |
| 68.0 | V | T491V686(1)010A(2) | 6.8 | 6.0 | 0.7 |
| #68.0 | C | T491C686(1)010A(2) | 6.8 | 6.0 | 1.2 |
| #68.0 | *U | T491U686M010A(2) | 6.8 | 10.0 | 1.8 |
| #68.0 | *B | T491B686M010A(2) | 6.8 | 10.0 | 3.0 |
| 100.0 | D | T491D107(1)010A(2) | 10.0 | 8.0 | 0.7 |
| #100.0 | *C | T491C107(1)010A(2) | 10.0 | 8.0 | 1.2 |
| #100.0 | V | T491V107(1)010A(2) | 10.0 | 8.0 | 0.7 |
| 150.0 | X | T491X157(1)010A(2) | 15.0 | 8.0 | 0.7 |
| #150.0 | D | T491D157(1)010A(2) | 15.0 | 8.0 | 0.7 |
| #150.0 | *C | T491C157(1)010A(2) | 15.0 | 10.0 | 1.2 |
| #150.0 | *V | T491V157M010A(2) | 15.0 | 8.0 | 0.7 |
| #220.0 | X | T491X227(1)010A(2) | 22.0 | 8.0 | 0.5 |
| #220.0 | *D | T491D227(1)010A(2) | 22.0 | 8.0 | 0.5 |
| #220.0 | *V | T491V227(1)010A(2) | 22.0 | 12.0 | 0.7 |
| #330.0 | *D | T491D337M010A(2) | 33.0 | 10.0 | 0.5 |
| #330.0 | *X | T491X337(1)010A(2) | 33.0 | 10.0 | 0.5 |
| #470.0 | *X | T491X477(1)010A(2) | 47.0 | 10.0 | 0.2 |
| #470.0 | *E | T491E477M010A(2) | 47.0 | 12.0 | 0.5 |
| 16 Volt Rating at +85°C (10 Volt Rating at +125°C) | | | | | |
| 1.0 | A | T491A105(1)016A(2) | 0.5 | 4.0 | 10.0 |
| 1.5 | A | T491A155(1)016A(2) | 0.5 | 6.0 | 8.0 |
| 2.2 | A | T491A225(1)016A(2) | 0.5 | 6.0 | 6.0 |
| 2.2 | *S | T491S225(1)016A(2) | 0.5 | 6.0 | 15.0 |
| #2.2 | *R | T491R225(1)016A(2) | 0.5 | 8.0 | 25.0 |
| 3.3 | B | T491B335(1)016A(2) | 0.5 | 6.0 | 3.5 |
| 3.3 | A | T491A335(1)016A(2) | 0.5 | 6.0 | 6.0 |
| 4.7 | B | T491B475(1)016A(2) | 0.8 | 6.0 | 3.5 |
| 4.7 | A | T491A475(1)016A(2) | 0.8 | 6.0 | 6.0 |
| 4.7 | T | T491T475(1)016A(2) | 0.8 | 6.0 | 5.0 |
| 6.8 | C | T491C685(1)016A(2) | 1.1 | 6.0 | 1.9 |
| 6.8 | B | T491B685(1)016A(2) | 1.1 | 6.0 | 3.5 |
| #6.8 | *A | T491A685(1)016A(2) | 1.1 | 6.0 | 7.0 |
| 10.0 | C | T491C106(1)016A(2) | 1.6 | 6.0 | 1.8 |
| 10.0 | U | T491U106(1)016A(2) | 1.6 | 6.0 | 1.8 |
| 10.0 | B | T491B106(1)016A(2) | 1.6 | 6.0 | 3.5 |
| #10.0 | *A | T491A106(1)016A(2) | 1.6 | 10.0 | 7.0 |
| #10.0 | *T | T491T106M016A(2) | 1.6 | 8.0 | 8.0 |
| 15.0 | C | T491C156(1)016A(2) | 2.4 | 6.0 | 1.8 |
| 15.0 | U | T491U156(1)016A(2) | 2.4 | 6.0 | 1.8 |
| #15.0 | *B | T491B156(1)016A(2) | 2.4 | 6.0 | 3.0 |
| 22.0 | D | T491D226(1)016A(2) | 3.6 | 6.0 | 0.8 |
| 22.0 | C | T491C226(1)016A(2) | 3.6 | 6.0 | 1.6 |
| #22.0 | *U | T491U226(1)016A(2) | 3.6 | 10.0 | 3.0 |
| #22.0 | *B | T491B226(1)016A(2) | 3.6 | 6.0 | 2.2 |
| 33.0 | D | T491D336(1)016A(2) | 5.3 | 6.0 | 0.8 |
| #33.0 | *C | T491C336(1)016A(2) | 5.3 | 6.0 | 1.2 |
| #33.0 | *U | T491U336(1)016A(2) | 5.3 | 12.0 | 3.0 |
| 47.0 | D | T491D476(1)016A(2) | 7.5 | 6.0 | 0.8 |
| 47.0 | V | T491V476(1)016A(2) | 7.5 | 6.0 | 0.7 |
| #47.0 | *C | T491C476(1)016A(2) | 7.5 | 6.0 | 1.2 |
| 68.0 | *V | T491V686(1)016A(2) | 10.9 | 6.0 | 0.7 |
| 68.0 | D | T491D686(1)016A(2) | 10.9 | 6.0 | 0.7 |

| Capacitance µF | Case Size | KEMET Part Number | DC Leakage mA @ 25°C Max | DF % @ +25°C 120 Hz Max | ESR W @ +25°C 100 kHz Max |
|---|--------------|----------------------|-----------------------------------|----------------------------------|------------------------------------|
| 16 Volt Rating at +85°C (10 Volt Rating at +125°C) | | | | | |
| 100.0 | X | T491X107(1)016A(2) | 16.0 | 8.0 | 0.7 |
| †100.0 | *V | T491V107(1)016A(2) | 16.0 | 12.0 | 0.7 |
| #100.0 | *D | T491D107(1)016A(2) | 16.0 | 8.0 | 0.7 |
| #150.0 | *X | T491X157(1)016A(2) | 24.0 | 8.0 | 0.5 |
| #150.0 | *D | T491D157(1)016A(2) | 24.0 | 12.0 | 0.7 |
| #270.0 | *X | T491X227(1)016A(2) | 35.2 | 10.0 | 0.5 |
| 20 Volt Rating at +85°C (13 Volt Rating at +125°C) | | | | | |
| 0.68 | A | T491A684(1)020A(2) | 0.5 | 4.0 | 12.0 |
| 1.0 | A | T491A105(1)020A(2) | 0.5 | 4.0 | 10.0 |
| 1.0 | S | T491S105(1)020A(2) | 0.5 | 6.0 | 18.0 |
| #1.0 | R | T491R105M020A(2) | 0.5 | 6.0 | 20.0 |
| 1.5 | A | T491A155(1)020A(2) | 0.5 | 6.0 | 8.0 |
| 1.5 | S | T491S155(1)020A(2) | 0.5 | 6.0 | 15.0 |
| 2.2 | B | T491B225(1)020A(2) | 0.5 | 6.0 | 3.5 |
| 2.2 | A | T491A225(1)020A(2) | 0.5 | 6.0 | 7.0 |
| 3.3 | B | T491B335(1)020A(2) | 0.7 | 6.0 | 3.5 |
| #3.3 | *A | T491A335(1)020A(2) | 0.7 | 6.0 | 7.0 |
| 3.3 | *T | T491T335(1)020A(2) | 0.7 | 6.0 | 5.0 |
| 4.7 | C | T491C475(1)020A(2) | 1.0 | 6.0 | 2.4 |
| 4.7 | B | T491B475(1)020A(2) | 1.0 | 6.0 | 3.5 |
| #4.7 | *A | T491A475(1)020A(2) | 1.0 | 8.0 | 6.0 |
| 6.8 | C | T491C685(1)020A(2) | 1.4 | 6.0 | 1.9 |
| 6.8 | U | T491U685(1)020A(2) | 1.4 | 6.0 | 1.9 |
| #6.8 | *B | T491B685(1)020A(2) | 1.4 | 6.0 | 3.5 |
| 10.0 | C | T491C106(1)020A(2) | 2.0 | 6.0 | 1.8 |
| 10.0 | U | T491U106(1)020A(2) | 2.0 | 6.0 | 1.8 |
| #10.0 | *B | T491B106(1)020A(2) | 2.0 | 6.0 | 3.0 |
| 15.0 | D | T491D156(1)020A(2) | 3.0 | 6.0 | 1.0 |
| 15.0 | C | T491C156(1)020A(2) | 3.0 | 6.0 | 1.7 |
| 22.0 | D | T491D226(1)020A(2) | 4.4 | 6.0 | 0.8 |
| 22.0 | V | T491V226(1)020A(2) | 4.4 | 6.0 | 0.7 |
| #22.0 | *C | T491C226(1)020A(2) | 4.4 | 6.0 | 1.2 |
| 33.0 | D | T491D336(1)020A(2) | 6.6 | 6.0 | 0.8 |
| #33.0 | *C | T491C336M020A(2) | 6.6 | 6.0 | 1.2 |
| †33.0 | *V | T491V336(1)020A(2) | 6.6 | 8.0 | 0.7 |
| 47.0 | *D | T491D476(1)020A(2) | 9.4 | 6.0 | 0.7 |
| 68.0 | X | T491X686(1)020A(2) | 13.6 | 6.0 | 0.7 |
| #68.0 | *D | T491D686(1)020A(2) | 13.6 | 8.0 | 0.7 |
| #100.0 | *X | T491X107(1)020A(2) | 20.0 | 8.0 | 0.5 |
| 25 Volt Rating at +85°C (17 Volt Rating at +125°C) | | | | | |
| 0.33 | A | T491A334(1)025A(2) | 0.5 | 4.0 | 15.0 |
| 0.47 | A | T491A474(1)025A(2) | 0.5 | 4.0 | 14.0 |
| 0.68 | A | T491A684(1)025A(2) | 0.5 | 4.0 | 10.0 |
| 1.0 | B | T491B105(1)025A(2) | 0.5 | 4.0 | 5.0 |
| 1.0 | *A | T491A105(1)025A(2) | 0.5 | 4.0 | 8.0 |
| 1.5 | B | T491B155(1)025A(2) | 0.5 | 6.0 | 5.0 |
| 1.5 | *A | T491A155(1)025A(2) | 0.5 | 6.0 | 10.0 |
| 2.2 | C | T491C225(1)025A(2) | 0.6 | 6.0 | 3.5 |
| 2.2 | B | T491B225(1)025A(2) | 0.6 | 6.0 | 4.5 |
| 3.3 | C | T491C335(1)025A(2) | 0.9 | 6.0 | 2.5 |
| 3.3 | B | T491B335(1)025A(2) | 0.9 | 6.0 | 3.5 |
| 4.7 | C | T491C475(1)025A(2) | 1.2 | 6.0 | 2.4 |
| #4.7 | *B | T491B475(1)025A(2) | 1.2 | 6.0 | 1.5 |
| 6.8 | C | T491C685(1)025A(2) | 1.7 | 6.0 | 1.9 |
| 6.8 | *B | T491B685(1)025A(2) | 1.7 | 8.0 | 3.0 |
| 10.0 | D | T491D106(1)025A(2) | 2.5 | 6.0 | 1.0 |
| 10.0 | C | T491C106(1)025A(2) | 2.5 | 6.0 | 1.5 |
| 15.0 | D | T491D156(1)025A(2) | 3.8 | 6.0 | 1.0 |
| #15.0 | *C | T491C156(1)025A(2) | 3.8 | 6.0 | 1.5 |
| 22.0 | D | T491D226(1)025A(2) | 5.5 | 6.0 | 0.8 |
| 22.0 | *C | T491C226(1)025A(2) | 5.5 | 8.0 | 1.5 |
| 22.0 | *V | T491V226(1)025A(2) | 5.5 | 6.0 | 0.7 |
| 33.0 | X | T491X336(1)025A(2) | 8.3 | 6.0 | 0.7 |
| #33.0 | *D | T491D336(1)025A(2) | 8.3 | 6.0 | 0.7 |
| #47.0 | *X | T491X476(1)025A(2) | 11.8 | 6.0 | 0.7 |
| †47.0 | *D | T491D476(1)025A(2) | 11.8 | 10.0 | 0.7 |
| †68.0 | *X | T491X686M025A(2) | 17.0 | 8.0 | 0.7 |

*Extended Values

††6 Volt product equivalent to 6.3 volt product.

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

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

(1) To complete KEMET Part Number, insert M for ±20% tolerance or K for ±10% tolerance.

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

Note: Refer to T491 Ordering Information on page 15 for lead termination options.

SOLID TANTALUM CHIP CAPACITORS

T491 SERIES - Precision Molded Chip



T491 RATINGS & PART NUMBER REFERENCE

| Capacitance µF | Case Size | KEMET Part Number | DC Leakage mA @ 25°C Max | DF % @ +25°C 120 Hz Max | ESR W @ +25°C 100 kHz Max |
|--|-----------|----------------------|-----------------------------------|----------------------------------|------------------------------------|
| 35 Volt Rating at +85°C (23 Volt Rating at +125°C) | | | | | |
| 0.10 | A | T491A104(1)035A(2) | 0.5 | 4.0 | 20.0 |
| 0.15 | A | T491A154(1)035A(2) | 0.5 | 4.0 | 19.0 |
| 0.22 | A | T491A224(1)035A(2) | 0.5 | 4.0 | 18.0 |
| 0.33 | A | T491A334(1)035A(2) | 0.5 | 4.0 | 15.0 |
| 0.47 | B | T491B474(1)035A(2) | 0.5 | 4.0 | 8.0 |
| 0.47 | A | T491A474(1)035A(2) | 0.5 | 4.0 | 14.0 |
| 0.68 | B | T491B684(1)035A(2) | 0.5 | 4.0 | 6.5 |
| 0.68 | *A | T491A684(1)035A(2) | 0.5 | 4.0 | 10.0 |
| 1.0 | B | T491B105(1)035A(2) | 0.5 | 4.0 | 5.0 |
| 1.0 | *A | T491A105(1)035A(2) | 0.5 | 4.0 | 10.0 |
| 1.5 | C | T491C155(1)035A(2) | 0.5 | 6.0 | 4.5 |
| 1.5 | B | T491B155(1)035A(2) | 0.5 | 6.0 | 5.0 |
| 2.2 | C | T491C225(1)035A(2) | 0.8 | 6.0 | 3.5 |
| 2.2 | *B | T491B225(1)035A(2) | 0.8 | 6.0 | 4.0 |
| 3.3 | C | T491C335(1)035A(2) | 1.2 | 6.0 | 2.5 |
| #3.3 | *B | T491B335(1)035A(2) | 1.2 | 6.0 | 3.5 |
| 4.7 | D | T491D475(1)035A(2) | 1.7 | 6.0 | 1.5 |
| 4.7 | C | T491C475(1)035A(2) | 1.7 | 6.0 | 2.5 |
| 6.8 | D | T491D685(1)035A(2) | 2.4 | 6.0 | 1.3 |
| 6.8 | *C | T491C685(1)035A(2) | 2.4 | 6.0 | 2.0 |
| 10.0 | D | T491D106(1)035A(2) | 3.5 | 6.0 | 1.0 |
| #10.0 | *C | T491C106M035A(2) | 3.5 | 6.0 | 2.0 |
| #10.0 | *V | T491V106(1)035A(2) | 3.5 | 6.0 | 2.0 |
| 15.0 | X | T491X156(1)035A(2) | 5.3 | 6.0 | 0.9 |
| 15.0 | D | T491D156(1)035A(2) | 5.3 | 6.0 | 0.8 |
| 22.0 | X | T491X226(1)035A(2) | 7.7 | 6.0 | 0.7 |
| #22.0 | *D | T491D226(1)035A(2) | 7.7 | 6.0 | 0.7 |
| #33.0 | *X | T491X336(1)035A(2) | 11.6 | 6.0 | 0.6 |
| †47.0 | *X | T491X476(1)035A(2) | 16.5 | 8.0 | 0.6 |
| #47.0 | *E | T491E476(1)035A(2) | 16.5 | 10.0 | 0.5 |
| 50 Volt Rating at +85°C (33 Volt Rating at + 125°C) | | | | | |
| 0.10 | A | T491A104(1)050A(2) | 0.5 | 4.0 | 20.0 |
| 0.15 | B | T491B154(1)050A(2) | 0.5 | 4.0 | 16.0 |
| 0.15 | *A | T491A154(1)050A(2) | 0.5 | 4.0 | 19.0 |
| 0.22 | B | T491B224(1)050A(2) | 0.5 | 4.0 | 14.0 |
| 0.33 | B | T491B334(1)050A(2) | 0.5 | 4.0 | 10.0 |
| 0.47 | C | T491C474(1)050A(2) | 0.5 | 4.0 | 8.0 |
| 0.47 | *B | T491B474(1)050A(2) | 0.5 | 4.0 | 9.0 |
| 0.68 | C | T491C684(1)050A(2) | 0.5 | 4.0 | 7.0 |
| 0.68 | *B | T491B684(1)050A(2) | 0.5 | 4.0 | 8.0 |
| 1.0 | C | T491C105(1)050A(2) | 0.5 | 4.0 | 5.5 |
| 1.0 | *V | T491V105M050A(2) | 0.5 | 4.0 | 6.0 |
| 1.5 | D | T491D155(1)050A(2) | 0.8 | 6.0 | 3.5 |
| 1.5 | *C | T491C155(1)050A(2) | 0.8 | 6.0 | 4.5 |
| 2.2 | D | T491D225(1)050A(2) | 1.1 | 6.0 | 2.5 |
| 2.2 | *C | T491C225(1)050A(2) | 1.1 | 6.0 | 3.5 |
| 3.3 | D | T491D335(1)050A(2) | 1.7 | 6.0 | 2.0 |
| 4.7 | D | T491D475(1)050A(2) | 2.4 | 6.0 | 1.5 |
| 6.8 | X | T491X685(1)050A(2) | 3.5 | 6.0 | 1.0 |
| #6.8 | *D | T491D685(1)050A(2) | 3.4 | 6.0 | 1.0 |
| #10.0 | *X | T491X106M050A(2) | 5.0 | 6.0 | 0.7 |
| †15.0 | *X | T491X156(1)050A(2) | 7.5 | 8.0 | 0.7 |

* Extended Values

** 6 Volt product equivalent to 6.3 volt product

Maximum Capacitance Change @ 125°C = +15%

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

(1) To complete KEMET Part Number, insert M for ±20% tolerance or K for ±10% tolerance.

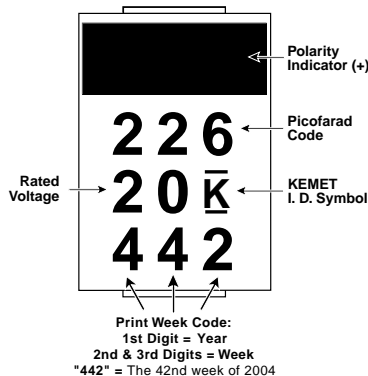
High voltage ratings and tighter capacitance tolerance product may be substituted within the same size at KEMET's option. Voltage substitutions will be marked with the higher voltage rating.

Note: Refer to T491 Ordering Information on page 15 for lead termination options.

Solid Tantalum Surface Mount

CAPACITOR MARKINGS

T491 Series — All Case Sizes



CONSTRUCTION

