



Design a KEMET Tantalum Chip into Your Next Project



KEMET is offering six Tantalum Chip Engineering Kits to meet your diverse design needs for the future. KEMET's line of Engineering Kits for Tantalum Chips will include a T495, T510 Low ESR Kit, an Extended Range T491 Kit, a Standard T491 Kit, a T494 Low-profile, Low-ESR Kit, T520, T530, A700 Polymer Kit and a High Temperature T498, T499 Kit.

Our current tantalum engineering kit offering includes the following categories:

- TAN ENG KIT 04 - T495, T510 Low ESR, Surge Robust
- TAN ENG KIT 05 - T491 Extended Range
- TAN ENG KIT 06 - T491 Standard
- TAN ENG KIT 07 - T494 Low Profile, Low ESR
- TAN ENG KIT 08 - T520, T530, A700 - Low ESR Polymer
- New** TAN ENG KIT 09 - T498, T499 High Temperature

Each Tantalum Engineering Kit contains Tantalum Surface Mount parts: 10 or 20 pieces for each part number in a strip of carrier tape clearly labeled with the KEMET part number. Also included with the Engineering Kit will be a Surface Mount catalog with outline drawings, dimensions, marking format, recommended mounting pad dimensions, and ordering information.

Experience the quality and performance of KEMET surface mount capacitors. Order one of KEMET's Tantalum Chip Kits and see how our finest surface mount devices handle your most challenging application now and in the future. All Engineering Kits are available through KEMET and your local distributor. A complete listing of all part numbers for each kit is available on the back of this page.

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**Kit Part Number: TAN ENG KIT 04 - T495, T510
(Low ESR, Surge Robust) 10 pcs.**

| KEMET Part Number | Size Code | | Capacitance μF | Voltage | Cap. Tol. | ESR m Ω |
|--------------------|-----------|---------|---------------------------|---------|------------|----------------|
| | KEMET | EIA | | | | |
| T495C107M006ATE150 | C | 6032-28 | 100.0 | 6 | $\pm 20\%$ | 150 |
| T495D227M010ATE100 | D | 7343-31 | 220.0 | 10 | $\pm 20\%$ | 100 |
| T495V686M016ATE300 | V | 7343-20 | 68.0 | 16 | $\pm 20\%$ | 300 |
| T495D107M016ATE100 | D | 7343-31 | 100.0 | 16 | $\pm 20\%$ | 100 |
| T495X476M020ATE100 | X | 7343-43 | 47.0 | 20 | $\pm 20\%$ | 100 |
| T495D226M025ATE200 | D | 7343-31 | 22.0 | 25 | $\pm 20\%$ | 200 |
| T495X336M035ATE175 | X | 7343-43 | 33.0 | 35 | $\pm 20\%$ | 175 |
| T495X475M050ATE300 | X | 7343-43 | 4.7 | 50 | $\pm 20\%$ | 300 |
| T510E687M006ATE023 | E | 7360-38 | 680.0 | 6 | $\pm 20\%$ | 23 |
| T510X687M004ATE030 | X | 7343-43 | 680.0 | 4 | $\pm 20\%$ | 30 |

**Kit Part Number: TAN ENG KIT 05 - T491
(Extended Range) 20 pcs.**

| KEMET Part Number | Size Code | | Capacitance μF | Voltage | Cap. Tol. |
|-------------------|-----------|---------|---------------------------|---------|------------|
| | KEMET | EIA | | | |
| T491B107K006AT | B | 3528-21 | 100.0 | 6 | $\pm 10\%$ |
| T491D477K006AT | D | 7343-31 | 470.0 | 6 | $\pm 10\%$ |
| T491A156K010AT | A | 3216-18 | 15.0 | 10 | $\pm 10\%$ |
| T491B686M010AT | B | 3528-21 | 68.0 | 10 | $\pm 20\%$ |
| T491C157K010AT | C | 6032-28 | 150.0 | 10 | $\pm 10\%$ |
| T491D337K010AT | D | 7343-31 | 330.0 | 10 | $\pm 10\%$ |
| T491T106M016AT | T | 3528-12 | 10.0 | 16 | $\pm 20\%$ |
| T491C476K016AT | C | 6032-28 | 47.0 | 16 | $\pm 10\%$ |
| T491D107K016AT | D | 7343-31 | 100.0 | 16 | $\pm 10\%$ |
| T491A475K020AT | A | 3216-18 | 4.7 | 20 | $\pm 10\%$ |
| T491B106K020AT | B | 3528-21 | 10.0 | 20 | $\pm 10\%$ |
| T491D686K020AT | D | 7343-31 | 68.0 | 20 | $\pm 10\%$ |
| T491D476K025AT | D | 7343-31 | 47.0 | 25 | $\pm 10\%$ |
| T491A105K035AT | A | 3216-18 | 1.0 | 35 | $\pm 10\%$ |
| T491C106K035AT | C | 6032-28 | 10.0 | 35 | $\pm 10\%$ |
| T491X476K035AT | X | 7343-43 | 47.0 | 35 | $\pm 10\%$ |
| T491D475K050AT | D | 7343-31 | 4.7 | 50 | $\pm 10\%$ |

**Kit Part Number: TAN ENG KIT 06 - T491
(Standard) 20 pcs.**

| KEMET Part Number | Size Code | | Capacitance μF | Voltage | Cap. Tol. |
|-------------------|-----------|---------|---------------------------|---------|------------|
| | KEMET | EIA | | | |
| T491A106K006AT | A | 3216-18 | 10.0 | 6 | $\pm 10\%$ |
| T491B476K006AT | B | 3528-21 | 47.0 | 6 | $\pm 10\%$ |
| T491C107K006AT | C | 6032-28 | 100.0 | 6 | $\pm 10\%$ |
| T491U107K006AT | U | 6032-15 | 100.0 | 6 | $\pm 10\%$ |
| T491A475K010AT | A | 3216-18 | 4.7 | 10 | $\pm 10\%$ |
| T491A106K010AT | A | 3216-18 | 10.0 | 10 | $\pm 10\%$ |
| T491C476K010AT | C | 6032-28 | 47.0 | 10 | $\pm 10\%$ |
| T491D107K010AT | D | 7343-31 | 100.0 | 10 | $\pm 10\%$ |
| T491A105K016AT | A | 3216-18 | 1.0 | 16 | $\pm 10\%$ |
| T491A225K016AT | A | 3216-18 | 2.2 | 16 | $\pm 10\%$ |
| T491B106K016AT | B | 3528-21 | 10.0 | 16 | $\pm 10\%$ |
| T491X157K016AT | X | 7343-43 | 150.0 | 16 | $\pm 10\%$ |
| T491B225K020AT | B | 3528-21 | 2.2 | 20 | $\pm 10\%$ |
| T491D336K020AT | D | 7343-31 | 33.0 | 20 | $\pm 10\%$ |
| T491A474K025AT | A | 3216-18 | 0.47 | 25 | $\pm 10\%$ |
| T491C106K025AT | C | 6032-28 | 10.0 | 25 | $\pm 10\%$ |
| T491D336K025AT | D | 7343-31 | 33.0 | 25 | $\pm 10\%$ |
| T491B105K035AT | B | 3528-21 | 1.0 | 35 | $\pm 10\%$ |
| T491D156K035AT | D | 7343-31 | 15.0 | 35 | $\pm 10\%$ |
| T491D335K050AT | D | 7343-31 | 3.3 | 50 | $\pm 10\%$ |

**Kit Part Number: TAN ENG KIT 07 - T494
(Low Profile, Low ESR) 20 pcs.**

| KEMET Part Number | Size Code | | Capacitance μF | Voltage | Cap. Tol. |
|-------------------|-----------|---------|---------------------------|---------|------------|
| | KEMET | EIA | | | |
| T494U476K004AT | U | 6032-15 | 47.0 | 4 | $\pm 10\%$ |
| T494V227K004AT | V | 7343-20 | 220.0 | 4 | $\pm 10\%$ |
| T494S475K006AT | S | 3216-12 | 4.7 | 6 | $\pm 10\%$ |
| T494S106M006AT | S | 3216-12 | 10.0 | 6 | $\pm 20\%$ |
| T494V107K006AT | V | 7343-20 | 100.0 | 6 | $\pm 10\%$ |
| T494T106K010AT | T | 3528-12 | 10.0 | 10 | $\pm 10\%$ |
| T494T156M010AT | T | 3528-12 | 15.0 | 10 | $\pm 20\%$ |
| T494U476K010AT | U | 6032-15 | 47.0 | 10 | $\pm 10\%$ |
| T494V227K010AT | V | 7343-20 | 220.0 | 10 | $\pm 10\%$ |
| T494R225M016AT | R | 2012-12 | 2.2 | 16 | $\pm 20\%$ |
| T494U156K016AT | U | 6032-15 | 15.0 | 16 | $\pm 10\%$ |
| T494V107K016AT | V | 7343-20 | 100.0 | 16 | $\pm 10\%$ |
| T494S155K020AT | S | 3216-12 | 1.5 | 20 | $\pm 10\%$ |
| T494T335K020AT | T | 3528-12 | 3.3 | 20 | $\pm 10\%$ |
| T494U106K020AT | U | 6032-15 | 10.0 | 20 | $\pm 10\%$ |
| T494V336M020AT | V | 7343-20 | 33.0 | 20 | $\pm 20\%$ |
| T494V226K025AT | V | 7343-20 | 22.0 | 25 | $\pm 10\%$ |
| T494V106K035AT | V | 7343-20 | 10.0 | 35 | $\pm 10\%$ |

**Kit Part Number: POLYMER ENG KIT 08 - T520, T530, A700
(Low ESR Polymer) 10 pcs.**

| KEMET Part Number | Size Code | | Capacitance μF | Voltage | Cap. Tol. | ESR m Ω |
|--------------------|-----------|---------|---------------------------|---------|------------|----------------|
| | KEMET | EIA | | | | |
| T520A226M006ATE100 | A | 3216-18 | 220.0 | 6 | $\pm 20\%$ | 100 |
| T520B336M006ATE070 | B | 3528-21 | 33.0 | 6 | $\pm 20\%$ | 70 |
| T520D337M006ATE040 | D | 7343-31 | 330.0 | 6 | $\pm 20\%$ | 40 |
| T520B686M004ATE070 | B | 3528-21 | 68.0 | 4 | $\pm 20\%$ | 70 |
| T520D337M2R5ATE007 | D | 7343-31 | 330.0 | 2.5 | $\pm 20\%$ | 7 |
| T520T476M006ATE070 | T | 3528-12 | 47.0 | 6 | $\pm 20\%$ | 70 |
| T520V157M006ATE015 | V | 7343-20 | 150.0 | 6 | $\pm 20\%$ | 15 |
| T520V227M004ATE007 | V | 7343-20 | 220.0 | 4 | $\pm 20\%$ | 7 |
| T520W476M016ATE045 | W | 7343-15 | 47.0 | 16 | $\pm 20\%$ | 45 |
| T520X337M010ATE025 | X | 7343-43 | 330.0 | 10 | $\pm 20\%$ | 25 |
| T520Y687M004ATE015 | Y | 7343-40 | 680.0 | 4 | $\pm 20\%$ | 15 |
| T530X158M2R5ATE005 | X | 7343-43 | 1500.0 | 2.5 | $\pm 20\%$ | 5 |
| T530Y687M004ATE005 | Y | 7343-40 | 680.0 | 4 | $\pm 20\%$ | 5 |
| A700D107M006ATE015 | D | 7343-31 | 100.0 | 6 | $\pm 20\%$ | 15 |
| A700X157M006ATE010 | X | 7343-43 | 150.0 | 6 | $\pm 20\%$ | 10 |
| A700V476M006ATE025 | V | 7343-20 | 47.0 | 6 | $\pm 20\%$ | 25 |

**Kit Part Number: TAN ENG KIT 09 - T498, T499
(High Temperature) 10 pcs.**

| KEMET Part Number | Size Code | | Capacitance μF | Voltage | Cap. Tol. | ESR Ω |
|--------------------|-----------|---------|---------------------------|---------|------------|--------------|
| | KEMET | EIA | | | | |
| T498A475K010ATE2K9 | A | 3216-18 | 4.7 | 10 | $\pm 10\%$ | 2.9 |
| T498C226K016ATE1K0 | C | 6032-28 | 22.0 | 16 | $\pm 10\%$ | 1.0 |
| T499B106K016ATE3K5 | B | 3528-21 | 10.0 | 16 | $\pm 10\%$ | 3.5 |
| T499B475K020ATE3K5 | B | 3528-21 | 4.7 | 20 | $\pm 10\%$ | 3.5 |
| T499A105K025ATE8K0 | A | 3216-18 | 1.0 | 25 | $\pm 10\%$ | 8.0 |
| T499D156K025ATE1K0 | D | 7343-31 | 15.0 | 25 | $\pm 10\%$ | 1.0 |
| T499B105K035ATE5K0 | B | 3528-21 | 1.0 | 35 | $\pm 10\%$ | 5.0 |
| T499D106K035ATE1K0 | D | 7343-31 | 10.0 | 35 | $\pm 10\%$ | 1.0 |
| T499X226K035ATE700 | X | 7343-43 | 22.0 | 35 | $\pm 10\%$ | 0.7 |
| T499D106K050ATE1K0 | D | 7343-31 | 10.0 | 50 | $\pm 10\%$ | 1.0 |

Notice: KEMET reserves the right to make changes or substitutions to the Engineering Kits at any time without notice.