

# Type T491 Solid Tantalum Chip Capacitors

## Solid Tantalum Chip Capacitors for Surface Mount Applications



The T491 Series' physical outline and dimensions conform to the global standard for tantalum capacitor chips, and the T491 exceeds the requirements of EIA standard 535BAAC. T491 chips are specifically for automated surface mount processes and equipment. The terminations are 100% Matte-Tin. Reliability and thermal stability are assured by lead-frame attachments to the tantalum pellet made by micro-processor-controlled welding and a high temperature silver epoxy adhesive. Standard packaging is compatible with all tape-fed placement units and with EIA RS-481-1 tape and reel specification.

### Highlights

- ◆ Low DF and DC Leakage
- ◆ Temperature Stable
- ◆ 260 °C for 10 Seconds Soldering
- ◆ Meets IECQ Standard QC300801/US0001
- ◆ Meets EIA Standard 535BAAC

### Specifications

**Capacitance Range:** 0.10  $\mu$ F to 330  $\mu$ F

**Voltage Range:** 4 Vdc to 50 VDC

**Tolerance:**  $\pm$ 10% standard,  $\pm$ 20% available

**Operating Temperature:** -55 °C to +125 °C (with proper derating)

**Cap Change From Initial Limit:** -10% @ -55 °C; +10% @ +85 °C; +12% @ +125 °C

**DC Leakage:** At 25 °C — See Ratings  
At 85 °C — 10 x 25 °C limit  
At 125 °C — 12 x 25 °C limit

**Dissipation Factor:** 0.1  $\mu$ F to 1.0  $\mu$ F — 4%  
1.5  $\mu$ F to 68  $\mu$ F — 6%  
100  $\mu$ F to 330  $\mu$ F — 8%

**Standard Packaging Tape and Reel:** EIA RS-481-1

| Case Code | EIA IECQ | Qty per 7" Reel | Tape  |       |
|-----------|----------|-----------------|-------|-------|
|           |          |                 | Width | Pitch |
| S         | 3216L    | 2,500           | 8mm   | 4mm   |
| T         | 3528L    | 2,500           | 8mm   | 4mm   |
| A         | 3216     | 2,000           | 8mm   | 4mm   |
| B         | 3528     | 2,000           | 8mm   | 4mm   |
| C         | 6032     | 500             | 12mm  | 8mm   |
| D         | 7343     | 500             | 12mm  | 8mm   |
| X         | 7343H    | 500             | 12mm  | 8mm   |

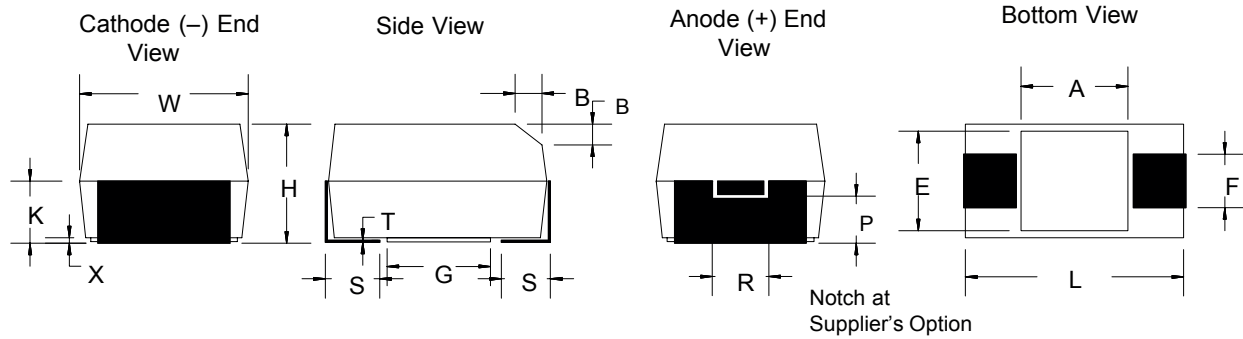
13" Reels Available on Special Order



Complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

# Type T491 Solid Tantalum Chip Capacitors

## Capacitor Outline Drawing



## Dimensions ————— Millimeters (Inches)

|   | EIA/<br>CDE IECQ | L                          | W                          | H                          | K                          | F                          | S                          | B<br>(Ref)                  | X<br>(Ref)                   | P<br>(Ref)     | R<br>(Ref)     | T<br>(Ref)      | A<br>(Min)     | G<br>(Ref)       | E<br>(Ref)       |
|---|------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|------------------------------|----------------|----------------|-----------------|----------------|------------------|------------------|
| A | 3216-18          | 3.2 ± 0.2<br>(.126 ± .008) | 1.6 ± 0.2<br>(.063 ± .008) | 1.6 ± 0.2<br>(.063 ± .008) | 0.9 ± 0.2<br>(.035 ± .008) | 1.2 ± 0.1<br>(.047 ± .004) | 0.8 ± 0.3<br>(.031 ± .012) | 0.4 ± 0.15<br>(.016 ± .006) | 0.10 ± 0.10<br>(.004 ± .004) | 0.4<br>(0.016) | 0.4<br>(0.016) | 0.13<br>(0.005) | 0.8<br>(0.031) | 1.1<br>(0.043)   | 1.3<br>(0.051)   |
| B | 3528-21          | 3.5 ± 0.2<br>(.138 ± .008) | 2.8 ± 0.2<br>(.110 ± .008) | 1.9 ± 0.2<br>(.075 ± .008) | 1.1 ± 0.2<br>(.043 ± .008) | 2.2 ± 0.1<br>(.087 ± .004) | 0.8 ± 0.3<br>(.031 ± .012) | 0.4 ± 0.15<br>(.016 ± .006) | 0.10 ± 0.10<br>(.004 ± .004) | 0.5<br>(0.02)  | 1<br>(0.039)   | 0.13<br>(0.005) | 1.1<br>(0.043) | 1.8<br>(0.071)   | 2.2<br>(0.087)   |
| C | 6032-28          | 6.0 ± 0.3<br>(.236 ± .012) | 3.2 ± 0.3<br>(.126 ± .012) | 2.5 ± 0.3<br>(.098 ± .012) | 1.4 ± 0.2<br>(.055 ± .008) | 2.2 ± 0.1<br>(.087 ± .004) | 1.3 ± 0.3<br>(.051 ± .012) | 0.5 ± 0.15<br>(.020 ± .006) | 0.10 ± 0.10<br>(.004 ± .004) | 0.9<br>(0.035) | 1<br>(0.039)   | 0.13<br>(0.005) | 2.5<br>(0.098) | 2.8<br>(0.11)    | 2.9<br>(0.114)   |
| D | 7343-31          | 7.3 ± 0.3<br>(.287 ± .012) | 4.3 ± 0.3<br>(.169 ± .012) | 2.8 ± 0.3<br>(.110 ± .012) | 1.5 ± 0.2<br>(.059 ± .008) | 2.4 ± 0.1<br>(.094 ± .004) | 1.3 ± 0.3<br>(.051 ± .012) | 0.5 ± 0.15<br>(.020 ± .006) | 0.10 ± 0.10<br>(.004 ± .004) | 0.9<br>(0.035) | 1<br>(0.039)   | 0.13<br>(0.005) | 3.8<br>(0.15)  | 3.5<br>(0.138)   | 3.5<br>(0.138)   |
| X | 7343-43          | 7.3 ± 0.3<br>(.287 ± .012) | 4.3 ± 0.3<br>(.169 ± .012) | 4.0 ± 0.3<br>(.157 ± .012) | 2.3 ± 0.2<br>(.091 ± .008) | 2.4 ± 0.1<br>(.094 ± .004) | 1.3 ± 0.3<br>(.051 ± .012) | 0.5 ± 0.15<br>(.020 ± .006) | 0.10 ± 0.10<br>(.004 ± .004) | 1.7<br>(0.067) | 1<br>(0.039)   | 0.13<br>(0.005) | 3.8<br>(0.15)  | 3.5**<br>(0.138) | 3.5**<br>(0.138) |

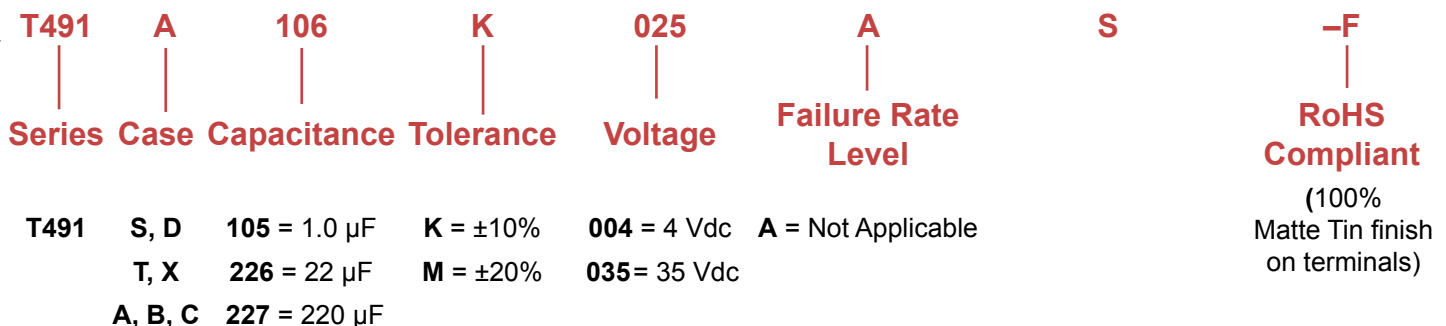
- Notes: 1 Metric dimensions govern  
 2 (Ref) - Dimensions provided for reference only  
 \*\* Round Glue Pad 2.9 ± 0.1mm (.114 ± .004) in diameter at Supplier's option

## Low Profile Capacitor Dimensions ————— Millimeters (Inches)

|   | EIA/<br>CDE IECQ | L                          | W                          | H Max.         | K Min.         | F                          | S                          | B<br>(Ref) | X<br>(Ref)      | P<br>(Ref) | R<br>(Ref) | T<br>(Ref)      | A<br>(Min)     | G<br>(Ref)     | E<br>(Ref)     |
|---|------------------|----------------------------|----------------------------|----------------|----------------|----------------------------|----------------------------|------------|-----------------|------------|------------|-----------------|----------------|----------------|----------------|
| S | 3216-12          | 3.2 ± 0.2<br>(.126 ± .008) | 1.6 ± 0.2<br>(.063 ± .008) | 1.2<br>(0.047) | 0.3<br>(0.012) | 1.2 ± 0.1<br>(.047 ± .004) | 0.8 ± 0.3<br>(.031 ± .012) | Note<br>3  | 0.05<br>(0.002) | Note<br>3  | Note<br>3  | 0.13<br>(0.005) | 0.8<br>(0.031) | 1.1<br>(0.043) | 1.3<br>(0.051) |
| T | 3528-12          | 3.5 ± 0.2<br>(.138 ± .008) | 2.8 ± 0.2<br>(.110 ± .008) | 1.2<br>(0.047) | 0.3<br>(0.012) | 2.2 ± 0.1<br>(.087 ± .004) | 0.8 ± 0.3<br>(.031 ± .012) | Note<br>3  | 0.05<br>(0.002) | Note<br>3  | Note<br>3  | 0.13<br>(0.005) | 1.1<br>(0.043) | 1.8<br>(0.071) | 2.2<br>(0.087) |

- 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 notch

## Part Numbering System



# Type T491 Solid Tantalum Chip Capacitors

## Ratings

| Cap<br>( $\mu$ F)                          | Case Code |             | Catalog<br>Part Number | Max. DC<br>Leakage<br>$\mu$ A @ 25 °C | Max. DF %<br>@ 25 °C<br>120 Hz | Cap<br>( $\mu$ F)                                                                                                                                      | Case Code |             | Catalog<br>Part Number | Max. DC<br>Leakage<br>$\mu$ A @ 25 °C | Max. DF %<br>@ 25 °C<br>120 Hz |
|--------------------------------------------|-----------|-------------|------------------------|---------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|------------------------|---------------------------------------|--------------------------------|
|                                            | CDE       | EIA<br>IECQ |                        |                                       |                                |                                                                                                                                                        | CDE       | EIA<br>IECQ |                        |                                       |                                |
| <b>4 WVdc @ +85 °C (2.7 WVdc @ 125 °C)</b> |           |             |                        |                                       |                                | <b>16 WVdc @ +85 °C (10 WVdc @ 125 °C)</b>                                                                                                             |           |             |                        |                                       |                                |
| 15                                         | T         | 3528L       | T491T156K004AS-F       | 0.6                                   | 6                              | 1.0                                                                                                                                                    | A         | 3216        | T491A105K016AS-F       | 0.5                                   | 4                              |
| 33                                         | B         | 3528        | T491B336K004AS-F       | 1.3                                   | 6                              | 2.2                                                                                                                                                    | A         | 3216        | T491A225K016AS-F       | 0.5                                   | 6                              |
| 68                                         | C         | 6032        | T491C686K004AS-F       | 2.7                                   | 6                              | 2.2                                                                                                                                                    | S         | 3216L       | T491S225K016AS-F       | 0.5                                   | 6                              |
| 100                                        | C         | 6032        | T491C107K004AS-F       | 4                                     | 8                              | 3.3                                                                                                                                                    | A         | 3216        | T491A335K016AS-F       | 0.5                                   | 6                              |
| 100                                        | D         | 7343        | T491D107K004AS-F       | 4                                     | 8                              | 3.3                                                                                                                                                    | B         | 3528        | T491B335K016AS-F       | 0.5                                   | 6                              |
| 150                                        | D         | 7343        | T491D157K004AS-F       | 6                                     | 8                              | 4.7                                                                                                                                                    | A         | 3216        | T491A475K016AS-F       | 0.8                                   | 6                              |
| <b>6 WVdc @ +85 °C (4 WVdc @ 125 °C)</b>   |           |             |                        |                                       |                                | <b>16 WVdc @ +85 °C (10 WVdc @ 125 °C)</b>                                                                                                             |           |             |                        |                                       |                                |
| 4.7                                        | A         | 3216        | T491A475K006AS-F       | 0.5                                   | 6                              | 4.7                                                                                                                                                    | B         | 3528        | T491B475K016AS-F       | 0.8                                   | 6                              |
| 4.7                                        | S         | 3216L       | T491S475K006AS-F       | 0.5                                   | 6                              | 4.7                                                                                                                                                    | T         | 3528L       | T491T475K016AS-F       | 0.8                                   | 6                              |
| 6.8                                        | A         | 3216        | T491A685K006AS-F       | 0.5                                   | 6                              | 6.8                                                                                                                                                    | B         | 3528        | T491B685K016AS-F       | 1.1                                   | 6                              |
| 6.8                                        | B         | 3528        | T491B685K006AS-F       | 0.5                                   | 6                              | 6.8                                                                                                                                                    | C         | 6032        | T491C685K016AS-F       | 1.1                                   | 6                              |
| 10                                         | A         | 3216        | T491A106K006AS-F       | 0.6                                   | 6                              | 10                                                                                                                                                     | B         | 3528        | T491B106K016AS-F       | 1.6                                   | 6                              |
| 10                                         | B         | 3528        | T491B106K006AS-F       | 0.6                                   | 6                              | 10                                                                                                                                                     | C         | 6032        | T491C106K016AS-F       | 1.6                                   | 6                              |
| 10                                         | T         | 3528L       | T491T106K006AS-F       | 0.6                                   | 6                              | 15                                                                                                                                                     | C         | 6032        | T491C156K016AS-F       | 2.4                                   | 6                              |
| 22                                         | B         | 3528        | T491B226K006AS-F       | 1.4                                   | 6                              | 22                                                                                                                                                     | C         | 6032        | T491C226K016AS-F       | 3.6                                   | 6                              |
| 22                                         | C         | 6032        | T491C226K006AS-F       | 1.4                                   | 6                              | 22                                                                                                                                                     | D         | 7343        | T491D226K016AS-F       | 3.6                                   | 6                              |
| 33                                         | C         | 6032        | T491C336K006AS-F       | 2                                     | 6                              | 33                                                                                                                                                     | C         | 6032        | T491C336K016AS-F       | 5.3                                   | 6                              |
| 47                                         | C         | 6032        | T491C476K006AS-F       | 2.9                                   | 6                              | 33                                                                                                                                                     | D         | 7343        | T491D336K016AS-F       | 5.3                                   | 6                              |
| 47                                         | D         | 7343        | T491D476K006AS-F       | 2.9                                   | 6                              | 47                                                                                                                                                     | D         | 7343        | T491D476K016AS-F       | 7.5                                   | 6                              |
| 68                                         | C         | 6032        | T491C686K006AS-F       | 4.1                                   | 6                              | 68                                                                                                                                                     | D         | 7343        | T491D686K016AS-F       | 10.9                                  | 6                              |
| 100                                        | D         | 7343        | T491D107K006AS-F       | 6                                     | 8                              | 100                                                                                                                                                    | X         | 7343H       | T491X107K016AS-F       | 16                                    | 8                              |
| 150                                        | D         | 7343        | T491D157K006AS-F       | 9                                     | 8                              | 150                                                                                                                                                    | X         | 7343H       | T491X157K016AS-F       | 24                                    | 8                              |
| 220                                        | X         | 7343H       | T491X227K006AS-F       | 13.2                                  | 8                              | <b>20 WVdc @ +85 °C (13 WVdc @ 125 °C)</b>                                                                                                             |           |             |                        |                                       |                                |
| 220                                        | D         | 7343        | T491D227K006AS-F       | 13.2                                  | 8                              | 1.0                                                                                                                                                    | A         | 3216        | T491A105K020AS-F       | 0.5                                   | 4                              |
| 330                                        | X         | 7343H       | T491X337K006AS-F       | 19.8                                  | 8                              | 1.5                                                                                                                                                    | A         | 3216        | T491A155K020AS-F       | 0.5                                   | 6                              |
| <b>10 WVdc @ +85 °C (7 WVdc @ 125 °C)</b>  |           |             |                        |                                       |                                | 1.5                                                                                                                                                    | S         | 3216L       | T491S155K020AS-F       | 0.5                                   | 6                              |
| 2.2                                        | A         | 3216        | T491A225K010AS-F       | 0.5                                   | 6                              | 2.2                                                                                                                                                    | A         | 3216        | T491A225K020AS-F       | 0.5                                   | 6                              |
| 3.3                                        | A         | 3216        | T491A335K010AS-F       | 0.5                                   | 6                              | 2.2                                                                                                                                                    | B         | 3528        | T491B225K020AS-F       | 0.5                                   | 6                              |
| 3.3                                        | S         | 3216L       | T491S335K010AS-F       | 0.5                                   | 6                              | 3.3                                                                                                                                                    | A         | 3216        | T491A335K020AS-F       | 0.7                                   | 6                              |
| 4.7                                        | A         | 3216        | T491A475K010AS-F       | 0.5                                   | 6                              | 3.3                                                                                                                                                    | B         | 3528        | T491B335K020AS-F       | 0.7                                   | 6                              |
| 4.7                                        | B         | 3528        | T491B475K010AS-F       | 0.5                                   | 6                              | 3.3                                                                                                                                                    | T         | 3528L       | T491T335K020AS-F       | 0.7                                   | 6                              |
| 6.8                                        | A         | 3216        | T491A685K010AS-F       | 0.7                                   | 6                              | 4.7                                                                                                                                                    | B         | 3528        | T491B475K020AS-F       | 1                                     | 6                              |
| 6.8                                        | B         | 3528        | T491B685K010AS-F       | 0.7                                   | 6                              | 4.7                                                                                                                                                    | C         | 6032        | T491C475K020AS-F       | 1                                     | 6                              |
| 6.8                                        | T         | 3528L       | T491T685K010AS-F       | 0.7                                   | 6                              | 6.8                                                                                                                                                    | B         | 3528        | T491B685K020AS-F       | 1.4                                   | 6                              |
| 10                                         | B         | 3528        | T491B106K010AS-F       | 1                                     | 6                              | 6.8                                                                                                                                                    | C         | 6032        | T491C685K020AS-F       | 1.4                                   | 6                              |
| 10                                         | C         | 6032        | T491C106K010AS-F       | 1                                     | 6                              | 10                                                                                                                                                     | C         | 6032        | T491C106K020AS-F       | 2                                     | 6                              |
| 15                                         | B         | 3528        | T491B156K010AS-F       | 1.5                                   | 6                              | 15                                                                                                                                                     | C         | 6032        | T491C156K020AS-F       | 3                                     | 6                              |
| 22                                         | C         | 6032        | T491C226K010AS-F       | 2.2                                   | 6                              | 15                                                                                                                                                     | D         | 7343        | T491D156K020AS-F       | 3                                     | 6                              |
| 33                                         | C         | 6032        | T491C336K010AS-F       | 3.3                                   | 6                              | 22                                                                                                                                                     | C         | 6032        | T491C226K020AS-F       | 4.4                                   | 6                              |
| 47                                         | C         | 6032        | T491C476K010AS-F       | 4.7                                   | 6                              | 22                                                                                                                                                     | D         | 7343        | T491D226K020AS-F       | 4.4                                   | 6                              |
| 47                                         | D         | 7343        | T491D476K010AS-F       | 4.7                                   | 6                              | 33                                                                                                                                                     | D         | 7343        | T491D336K020AS-F       | 6.6                                   | 6                              |
| 68                                         | D         | 7343        | T491D686K010AS-F       | 6.8                                   | 6                              | 47                                                                                                                                                     | D         | 7343        | T491D476K020AS-F       | 9.4                                   | 6                              |
| 100                                        | D         | 7343        | T491D107K010AS-F       | 10                                    | 8                              | 68                                                                                                                                                     | X         | 7343H       | T491X686K020AS-F       | 13.6                                  | 6                              |
| 150                                        | X         | 7343H       | T491X157K010AS-F       | 15                                    | 8                              | 100                                                                                                                                                    | X         | 7343H       | T491X107K020AS-F       | 20                                    | 8                              |
| 220                                        | X         | 7343H       | T491X227K010AS-F       | 22                                    | 8                              | <b>Note:</b> CDE reserves the right to offer higher rated voltage substitutes within the same case size. The marking will indicate the higher voltage. |           |             |                        |                                       |                                |

# Type T491 Solid Tantalum Chip Capacitors

| Cap<br>( $\mu$ F)                          | Case Code |             | Catalog<br>Part Number | Max. DC<br>Leakage<br>$\mu$ A @ 25 °C | Max. DF %<br>@ 25 °C<br>120 Hz |
|--------------------------------------------|-----------|-------------|------------------------|---------------------------------------|--------------------------------|
|                                            | CDE       | EIA<br>IECQ |                        |                                       |                                |
| <b>25 WVdc @ +85 °C (17 WVdc @ 125 °C)</b> |           |             |                        |                                       |                                |
| 0.47                                       | A         | 3216        | T491A474K025AS-F       | 0.5                                   | 4                              |
| 0.68                                       | A         | 3216        | T491A684K025AS-F       | 0.5                                   | 4                              |
| 1.0                                        | A         | 3216        | T491A105K025AS-F       | 0.5                                   | 4                              |
| 1.0                                        | B         | 3528        | T491B105K025AS-F       | 0.5                                   | 4                              |
| 1.5                                        | B         | 3528        | T491B155K025AS-F       | 0.5                                   | 6                              |
| 2.2                                        | B         | 3528        | T491B225K025AS-F       | 0.6                                   | 6                              |
| 2.2                                        | C         | 6032        | T491C225K025AS-F       | 0.6                                   | 6                              |
| 3.3                                        | C         | 6032        | T491C335K025AS-F       | 0.9                                   | 6                              |
| 4.7                                        | C         | 6032        | T491C475K025AS-F       | 1.2                                   | 6                              |
| 6.8                                        | C         | 6032        | T491C685K025AS-F       | 1.7                                   | 6                              |
| 10                                         | C         | 6032        | T491C106K025AS-F       | 2.5                                   | 6                              |
| 10                                         | D         | 7343        | T491D106K025AS-F       | 2.5                                   | 6                              |
| 15                                         | D         | 7343        | T491D156K025AS-F       | 3.8                                   | 6                              |
| 22                                         | D         | 7343        | T491D226K025AS-F       | 5.5                                   | 6                              |
| 33                                         | X         | 7343H       | T491X336K025AS-F       | 8.3                                   | 6                              |
| <b>35 WVdc @ +85 °C (23 WVdc @ 125 °C)</b> |           |             |                        |                                       |                                |
| 0.10                                       | A         | 3216        | T491A104K035AS-F       | 0.5                                   | 4                              |
| 0.15                                       | A         | 3216        | T491A154K035AS-F       | 0.5                                   | 4                              |
| 0.22                                       | A         | 3216        | T491A224K035AS-F       | 0.5                                   | 4                              |
| 0.33                                       | A         | 3216        | T491A334K035AS-F       | 0.5                                   | 4                              |
| 0.47                                       | A         | 3216        | T491A474K035AS-F       | 0.5                                   | 4                              |
| 0.47                                       | B         | 3528        | T491B474K035AS-F       | 0.5                                   | 4                              |
| 0.68                                       | B         | 3528        | T491B684K035AS-F       | 0.5                                   | 4                              |
| 1.0                                        | B         | 3528        | T491B105K035AS-F       | 0.5                                   | 4                              |
| 1.5                                        | C         | 6032        | T491C155K035AS-F       | 0.5                                   | 6                              |
| 2.2                                        | C         | 6032        | T491C225K035AS-F       | 0.8                                   | 6                              |
| 3.3                                        | C         | 6032        | T491C335K035AS-F       | 1.2                                   | 6                              |
| 4.7                                        | C         | 6032        | T491C475K035AS-F       | 1.7                                   | 6                              |
| 4.7                                        | D         | 7343        | T491D475K035AS-F       | 1.7                                   | 6                              |
| 6.8                                        | D         | 7343        | T491D685K035AS-F       | 2.4                                   | 6                              |
| 10                                         | D         | 7343        | T491D106K035AS-F       | 3.5                                   | 6                              |
| 15                                         | X         | 7343H       | T491X156K035AS-F       | 5.3                                   | 6                              |
| 22                                         | X         | 7343H       | T491X226K035AS-F       | 7.7                                   | 6                              |

| Cap<br>( $\mu$ F)                          | Case Code |             | Catalog<br>Part Number | Max. DC<br>Leakage<br>$\mu$ A @ 25 °C | Max. DF %<br>@ 25 °C<br>120 Hz |
|--------------------------------------------|-----------|-------------|------------------------|---------------------------------------|--------------------------------|
|                                            | CDE       | EIA<br>IECQ |                        |                                       |                                |
| <b>50 WVdc @ +85 °C (33 WVdc @ 125 °C)</b> |           |             |                        |                                       |                                |
| 0.10                                       | A         | 3216        | T491A104K050AS-F       | 0.5                                   | 4                              |
| 0.15                                       | A         | 3216        | T491A154K050AS-F       | 0.5                                   | 4                              |
| 0.15                                       | B         | 3528        | T491B154K050AS-F       | 0.5                                   | 4                              |
| 0.22                                       | B         | 3528        | T491B224K050AS-F       | 0.5                                   | 4                              |
| 0.33                                       | B         | 3528        | T491B334K050AS-F       | 0.5                                   | 4                              |
| 0.47                                       | B         | 3528        | T491B474K050AS-F       | 0.5                                   | 4                              |
| 0.47                                       | C         | 6032        | T491C474K050AS-F       | 0.5                                   | 4                              |
| 0.68                                       | C         | 6032        | T491C684K050AS-F       | 0.5                                   | 4                              |
| 1.0                                        | C         | 6032        | T491C105K050AS-F       | 0.5                                   | 4                              |
| 1.5                                        | C         | 6032        | T491C155K050AS-F       | 0.5                                   | 6                              |
| 1.5                                        | D         | 7343        | T491D155K050AS-F       | 0.8                                   | 6                              |
| 2.2                                        | D         | 7343        | T491D225K050AS-F       | 1.1                                   | 6                              |
| 3.3                                        | D         | 7343        | T491D335K050AS-F       | 1.7                                   | 6                              |
| 4.7                                        | D         | 7343        | T491D475K050AS-F       | 2.4                                   | 6                              |
| 6.8                                        | X         | 7343H       | T491X685K050AS-F       | 3.5                                   | 6                              |

**Note:** CDE reserves the right to offer higher rated voltage substitutes within the same case size. The marking will indicate the higher voltage.

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