



**THE DATASHEET OF  
T491B685K020AS**



# Type T491 Solid Tantalum Chip Capacitors

## Solid Tantalum Chip Capacitors for Surface Mount Applications



### Highlights

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

### Specifications

|  |  |
|--|--|
| <b>Capacitance Range:</b>                | 0.10 $\mu$ F to 330 $\mu$ F  |
| <b>Voltage Range:</b>                    | 4 Vdc to 50 VDC  |
| <b>Tolerance:</b>                        | $\pm$ 10% standard, $\pm$ 20% available  |
| <b>Operating Temperature:</b>            | -55 °C to +125 °C (with proper derating)   |
| <b>Cap Change From Initial Limit:</b>    | -10% @ -55 °C; +10% @ +85 °C;<br>+12% @ +125 °C  |
| <b>DC Leakage:</b>                       | At 25 °C — See Ratings<br>At 85 °C — 10 x 25 °C limit<br>At 125 °C — 12 x 25 °C limit                |
| <b>Dissipation Factor:</b>               | 0.1 $\mu$ F to 1.0 $\mu$ F — 4%<br>1.5 $\mu$ F to 68 $\mu$ F — 6%<br>100 $\mu$ F to 330 $\mu$ F — 8% |
| <b>Standard Packaging Tape and Reel:</b> | 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   |

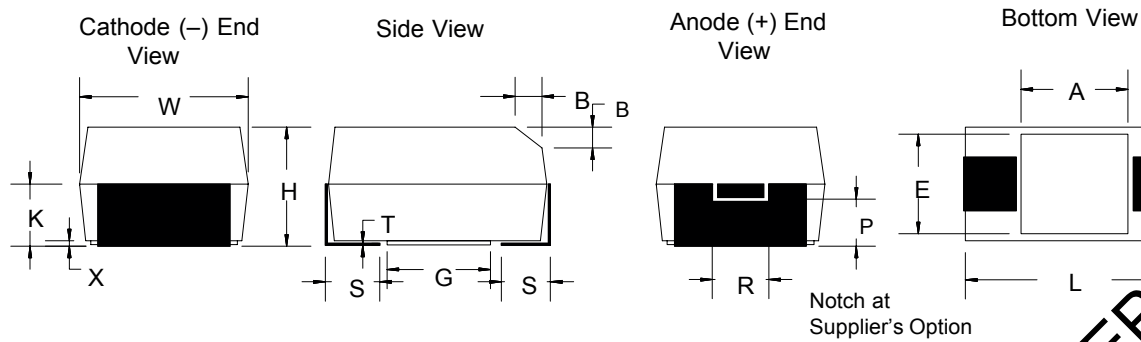
13" Reels Available on Special Order



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 ± .001) | 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 ± .001) | 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 ± .001) | 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 ± .001) | 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 ± .001) | 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

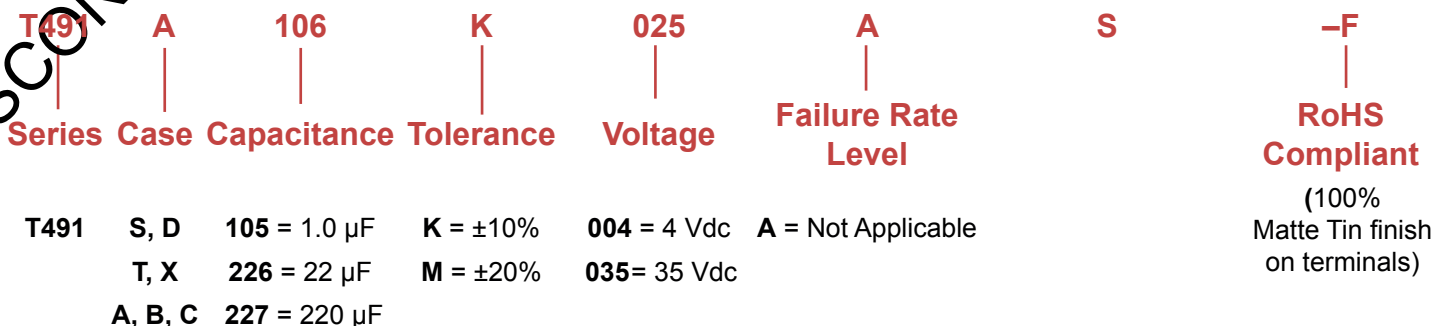
## Low Profile Capacitor Dimensions

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>(.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 (µF)                                   | Case Code |          | Catalog Part Number | Max. DC Leakage µA @ 25 °C | Max. DF % @ 25 °C 120 Hz | Cap (µF)                                   | Case Code |          | Catalog Part Number | Max. DC Leakage µA @ 25 °C | Max. DF % @ 25 °C 120 Hz |
|--|-----------|----------|---------------------|----------------------------|--------------------------|--|-----------|----------|---------------------|----------------------------|--------------------------|
|  | CDE       | EIA IECQ |                     |                            |                          |  | CDE       | EIA 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    | 0.5                        | 6                        |
| <b>6 WVdc @ +85 °C (4 WVdc @ 125 °C)</b>   |           |          |                     |                            |                          | <b>20 WVdc @ +85 °C (13 WVdc @ 125 °C)</b> |           |          |                     |                            |                          |
| 4.7  | A         | 3216     | T491A475K006AS-F    | 0.5                        | 6                        | 1.0  | A         | 3216     | T491A105K020AS-F    | 0.5                        | 4                        |
| 4.7  | S         | 3216L    | T491S475K006AS-F    | 0.5                        | 6                        | 1.5  | A         | 3216     | T491A155K020AS-F    | 0.5                        | 6                        |
| 6.8  | A         | 3216     | T491A685K006AS-F    | 0.5                        | 6                        | 1.5  | S         | 3216L    | T491S155K020AS-F    | 0.5                        | 6                        |
| 6.8  | B         | 3528     | T491B685K006AS-F    | 0.5                        | 6                        | 2.2  | A         | 3216     | T491A225K020AS-F    | 0.5                        | 6                        |
| 10   | A         | 3216     | T491A106K006AS-F    | 0.6                        | 6                        | 2.2  | B         | 3528     | T491B225K020AS-F    | 0.5                        | 6                        |
| 10   | B         | 3528     | T491B106K006AS-F    | 0.6                        | 6                        | 3.3  | A         | 3216     | T491A335K020AS-F    | 0.7                        | 6                        |
| 10   | T         | 3528L    | T491T106K006AS-F    | 0.6                        | 6                        | 3.3  | B         | 3528     | T491B335K020AS-F    | 0.7                        | 6                        |
| 22   | B         | 3528     | T491B226K006AS-F    | 1.4                        | 6                        | 3.3  | T         | 3528L    | T491T335K020AS-F    | 0.7                        | 6                        |
| 22   | C         | 6032     | T491C226K006AS-F    | 1.4                        | 6                        | 4.7  | B         | 3528     | T491B475K020AS-F    | 1                          | 6                        |
| 33   | C         | 6032     | T491C336K006AS-F    | 2                          | 6                        | 4.7  | C         | 6032     | T491C475K020AS-F    | 1                          | 6                        |
| 47   | C         | 6032     | T491C476K006AS-F    | 2.9                        | 6                        | 6.8  | B         | 3528     | T491B685K020AS-F    | 1.4                        | 6                        |
| 47   | D         | 7343     | T491D476K006AS-F    | 2.9                        | 6                        | 6.8  | C         | 6032     | T491C685K020AS-F    | 1.4                        | 6                        |
| 68   | C         | 6032     | T491C686K006AS-F    | 4.1                        | 6                        | 10   | C         | 6032     | T491C106K020AS-F    | 2                          | 6                        |
| 100  | D         | 7343     | T491D107K006AS-F    | 6                          | 8                        | 15   | C         | 6032     | T491C156K020AS-F    | 3                          | 6                        |
| 150  | D         | 7343     | T491D157K006AS-F    | 9                          | 8                        | 15   | D         | 7343     | T491D156K020AS-F    | 3                          | 6                        |
| 220  | X         | 7343H    | T491X227K006AS-F    | 13.2                       | 8                        | 22   | C         | 6032     | T491C226K020AS-F    | 4.4                        | 6                        |
| 220  | D         | 7343     | T491D227K006AS-F    | 13.2                       | 8                        | 22   | D         | 7343     | T491D226K020AS-F    | 4.4                        | 6                        |
| 330  | X         | 7343H    | T491X337K006AS-F    | 19.8                       | 8                        | 33   | D         | 7343     | T491D336K020AS-F    | 6.6                        | 6                        |
| <b>10 WVdc @ +85 °C (7 WVdc @ 125 °C)</b>  |           |          |                     |                            |                          | <b>20 WVdc @ +85 °C (13 WVdc @ 125 °C)</b> |           |          |                     |                            |                          |
| 2.2  | A         | 3216     | T491A225K010AS-F    | 0.5                        | 6                        | 47   | D         | 7343     | T491D476K020AS-F    | 9.4                        | 6                        |
| 3.3  | A         | 3216     | T491A335K010AS-F    | 0.5                        | 6                        | 68   | D         | 7343     | T491D686K010AS-F    | 6.8                        | 6                        |
| 3.3  | S         | 3216L    | T491S335K010AS-F    | 0.5                        | 6                        | 100  | D         | 7343     | T491D107K010AS-F    | 10                         | 8                        |
| 4.7  | A         | 3216     | T491A475K010AS-F    | 0.5                        | 6                        | 150  | D         | 7343H    | T491D157K010AS-F    | 15                         | 8                        |
| 4.7  | B         | 3528     | T491B475K010AS-F    | 0.5                        | 6                        | 220  | X         | 7343H    | T491D227K010AS-F    | 22                         | 8                        |
| 6.8  | A         | 3216     | T491A685K010AS-F    | 0.7                        | 6                        |  |           |          |                     |                            |                          |
| 6.8  | B         | 3528     | T491B685K010AS-F    | 0.7                        | 6                        |  |           |          |                     |                            |                          |
| 6.8  | T         | 3528L    | T491T685K010AS-F    | 0.7                        | 6                        |  |           |          |                     |                            |                          |
| 10   | B         | 3528     | T491B106K010AS-F    | 1                          | 6                        |  |           |          |                     |                            |                          |
| 10   | C         | 6032     | T491C106K010AS-F    | 1                          | 6                        |  |           |          |                     |                            |                          |
| 15   | B         | 3528     | T491B156K010AS-F    | 1.5                        | 6                        |  |           |          |                     |                            |                          |
| 22   | C         | 6032     | T491C226K010AS-F    | 2.2                        | 6                        |  |           |          |                     |                            |                          |
| 33   | C         | 6032     | T491C336K010AS-F    | 3.3                        | 6                        |  |           |          |                     |                            |                          |
| 47   | C         | 6032     | T491C476K010AS-F    | 4.7                        | 6                        |  |           |          |                     |                            |                          |
| 47   | D         | 7343     | T491D476K010AS-F    | 4.7                        | 6                        |  |           |          |                     |                            |                          |
| 68   | D         | 7343     | T491D686K010AS-F    | 6.8                        | 6                        |  |           |          |                     |                            |                          |
| 100  | D         | 7343     | T491D107K010AS-F    | 10                         | 8                        |  |           |          |                     |                            |                          |
| 150  | D         | 7343H    | T491D157K010AS-F    | 15                         | 8                        |  |           |          |                     |                            |                          |
| 220  | X         | 7343H    | T491D227K010AS-F    | 22                         | 8                        |  |           |          |                     |                            |                          |

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

DISCONTINUED CONTACT KEMET FOR EQUIVALENT REPLACEMENT

# 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.

DISCONTINUED CONTACT KEMET FOR EQUIVALENT REPLACEMENT

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