

# TAJ Automotive Range



## Standard Tantalum - Automotive Product Range



### FEATURES

- General purpose SMT chip tantalum series
- 6 case sizes available
- CV range: 0.22-680µF / 6.3-50V

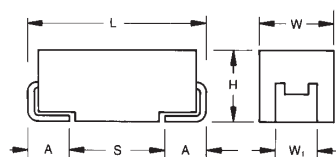


LEAD-FREE  
LEAD-FREE COMPATIBLE  
COMPONENT



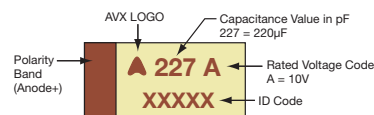
### APPLICATIONS

- Audio Systems
- GPS
- Seat Controls
- Dashboard



### MARKING

#### A, B, C, D, E, Y CASE



### CASE DIMENSIONS: millimeters (inches)

| Code | EIA Code | EIA Metric | L±0.20 (0.008) | W±0.20 (0.008)<br>-0.10 (0.004) | H±0.20 (0.008)<br>-0.10 (0.004) | W1±0.20 (0.008) | A±0.30 (0.012)<br>-0.20 (0.008) | S Min.       |
|------|----------|------------|----------------|---------------------------------|---------------------------------|-----------------|---------------------------------|--------------|
| A    | 1206     | 3216-18    | 3.20 (0.126)   | 1.60 (0.063)                    | 1.60 (0.063)                    | 1.20 (0.047)    | 0.80 (0.031)                    | 1.10 (0.043) |
| B    | 1210     | 3528-21    | 3.50 (0.138)   | 2.80 (0.110)                    | 1.90 (0.075)                    | 2.20 (0.087)    | 0.80 (0.031)                    | 1.40 (0.055) |
| C    | 2312     | 6032-28    | 6.00 (0.236)   | 3.20 (0.126)                    | 2.60 (0.102)                    | 2.20 (0.087)    | 1.30 (0.051)                    | 2.90 (0.114) |
| D    | 2917     | 7343-31    | 7.30 (0.287)   | 4.30 (0.169)                    | 2.90 (0.114)                    | 2.40 (0.094)    | 1.30 (0.051)                    | 4.40 (0.173) |
| E    | 2917     | 7343-43    | 7.30 (0.287)   | 4.30 (0.169)                    | 4.10 (0.162)                    | 2.40 (0.094)    | 1.30 (0.051)                    | 4.40 (0.173) |
| Y    | 2917     | 7343-20    | 7.30 (0.287)   | 4.30 (0.169)                    | 2.00 (0.079)                    | 2.40 (0.094)    | 1.30 (0.051)                    | 4.40 (0.173) |

W1 dimension applies to the termination width for A dimensional area only.

### HOW TO ORDER

#### TAJ

Type

#### C

Case Size  
See table above

#### 106

Capacitance Code  
pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)

#### M

Tolerance  
K = ±10%  
M = ±20%

#### 035

Rated DC Voltage  
006 = 6.3Vdc  
010 = 10Vdc  
016 = 16Vdc  
020 = 20Vdc  
025 = 25Vdc  
035 = 35Vdc  
050 = 50Vdc

#### T

Packaging  
T = Automotive Lead Free 7" Reel  
U = Automotive Lead Free 13" Reel

#### NJ

Specification Suffix  
NJ = Std Suffix

#### V

Dry Pack Option  
(D,E,Y case sizes mandatory)

### TECHNICAL SPECIFICATIONS

Technical Data:

All technical data relate to an ambient temperature of +25°C

Capacitance Range: 0.22 µF to 680 µF

Capacitance Tolerance: ±10%; ±20%

| Rated Voltage (V <sub>R</sub> )    | ≤ +85°C:  | 6.3 | 10 | 16 | 20 | 25 | 35 | 50 |
|------------------------------------|-----------|-----|----|----|----|----|----|----|
| Category Voltage (V <sub>C</sub> ) | ≤ +125°C: | 4   | 7  | 10 | 13 | 17 | 23 | 33 |
| Surge Voltage (V <sub>S</sub> )    | ≤ +85°C:  | 8   | 13 | 20 | 26 | 32 | 46 | 65 |
| Surge Voltage (V <sub>S</sub> )    | ≤ +125°C: | 5   | 8  | 13 | 16 | 20 | 28 | 40 |

Temperature Range: -55°C to +125°C

Environmental Classification: 55/125/56 (IEC 68-2)

Reliability: 1% per 1000 hours at 85°C, V<sub>R</sub> with 0.1Ω/V series impedance, 60% confidence level

Termination Finished: Sn Plating (standard), Gold and SnPb Plating upon request

Meets requirements of AEC-Q200

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### TAJ AUTOMOTIVE RANGE CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

| Capacitance          |                   | Rated voltage DC (V <sub>R</sub> ) to 85°C |                         |                         |                     |                       |                     |                 |
|----------------------|-------------------|--------------------------------------------|-------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|
| µF                   | Code              | 6.3V (J)                                   | 10V (A)                 | 16V (C)                 | 20V (D)             | 25V (E)               | 35V (V)             | 50V (T)         |
| 0.10<br>0.15<br>0.22 | 104<br>154<br>224 |                                            |                         |                         |                     |                       |                     | A               |
| 0.33<br>0.47<br>0.68 | 334<br>474<br>684 |                                            |                         |                         |                     | A<br>A                | A<br>A<br>A         | A<br>A/B<br>B   |
| 1.0<br>1.5<br>2.2    | 105<br>155<br>225 |                                            | A                       | A                       | A<br>A<br>A/B       | A<br>A/B<br>A/B       | A/B<br>A/B<br>B/C   | B/C<br>C<br>C/D |
| 3.3<br>4.7<br>6.8    | 335<br>475<br>685 | A                                          | A/B<br>A/B              | A/B<br>A/B<br>A/B       | A/B<br>A/B<br>A/B/C | A/B<br>B/C<br>B/C     | B/C<br>B/C/D<br>C/D | C/D<br>C/D<br>D |
| 10<br>15<br>22       | 106<br>156<br>226 | A/B<br>A<br>A/B/C                          | A/B<br>A/B/C<br>A/B/C   | A/B/C<br>B/C<br>B/C/D   | B/C<br>B/C<br>C/D/Y | C/D<br>C/D/Y<br>C/D/Y | C/D/Y<br>D/Y<br>D/E | D/E<br>E        |
| 33<br>47<br>68       | 336<br>476<br>686 | A/B<br>A/B/C<br>B/C                        | B/C<br>B/C/D<br>B/C/D/Y | C/D/Y<br>C/D/Y<br>C/D/Y | C/D/Y<br>D/Y<br>D/E | D<br>D/E              | D/E                 |                 |
| 100<br>150<br>220    | 107<br>157<br>227 | B/C/D/Y<br>C/D/Y<br>C/D/Y                  | C/D/Y<br>D/E/Y<br>D/E   | D/E<br>D/E<br>E         | E                   | E                     |                     |                 |
| 330<br>470<br>680    | 337<br>477<br>687 | D/E<br>D/E<br>D/E                          | D/E                     |                         |                     |                       |                     |                 |

Not recommended for new designs; higher voltage or smaller case size alternatives are available.

Released ratings

Engineering samples - please contact AVX

Note: Voltage ratings are minimum values. AVX reserves the right to supply higher voltage ratings in the same case size, to the same reliability standards.

# TAJ Automotive Range



## Standard Tantalum - Automotive Product Range

### RATINGS & PART NUMBER REFERENCE

| AVX<br>Part No. | Case<br>Size | Capacitance<br>(µF) | Rated<br>Voltage<br>(V) | Rated<br>Temperature<br>(°C) | Category<br>Voltage<br>(V) | Category<br>Temperature<br>(°C) | DCL<br>Max.<br>(µA) | DF<br>Max.<br>(%) | ESR<br>Max.<br>@ 100kHz<br>(Ω) | 100kHz RMS Current (mA) |      |       | MSL |
|-----------------|--------------|---------------------|-------------------------|------------------------------|----------------------------|---------------------------------|---------------------|-------------------|--------------------------------|-------------------------|------|-------|-----|
|                 |              |                     |                         |                              |                            |                                 |                     |                   |                                | 25°C                    | 85°C | 125°C |     |
| 6.3 Volt @ 85°C |              |                     |                         |                              |                            |                                 |                     |                   |                                |                         |      |       |     |
| TAJA335*006TNJ  | A            | 3.3                 | 6.3                     | 85                           | 4                          | 125                             | 0.5                 | 6                 | 7                              | 104                     | 93   | 41    | 1   |
| TAJA106*006TNJ  | A            | 10                  | 6.3                     | 85                           | 4                          | 125                             | 0.6                 | 6                 | 4                              | 137                     | 123  | 55    | 1   |
| TAJB106*006TNJ  | B            | 10                  | 6.3                     | 85                           | 4                          | 125                             | 0.5                 | 6                 | 3                              | 168                     | 151  | 67    | 1   |
| TAJA156*006TNJ  | A            | 15                  | 6.3                     | 85                           | 4                          | 125                             | 0.9                 | 6                 | 3.5                            | 146                     | 132  | 59    | 1   |
| TAJA226*006TNJ  | A            | 22                  | 6.3                     | 85                           | 4                          | 125                             | 1.4                 | 6                 | 3                              | 158                     | 142  | 63    | 1   |
| TAJB226*006TNJ  | B            | 22                  | 6.3                     | 85                           | 4                          | 125                             | 1.4                 | 6                 | 2.5                            | 184                     | 166  | 74    | 1   |
| TAJC226*006TNJ  | C            | 22                  | 6.3                     | 85                           | 4                          | 125                             | 1.4                 | 6                 | 2                              | 235                     | 211  | 94    | 1   |
| TAJA336*006TNJ  | A            | 33                  | 6.3                     | 85                           | 4                          | 125                             | 2.1                 | 8                 | 2.2                            | 185                     | 166  | 74    | 1   |
| TAJB336*006TNJ  | B            | 33                  | 6.3                     | 85                           | 4                          | 125                             | 2.1                 | 6                 | 2.2                            | 197                     | 177  | 79    | 1   |
| TAJA476*006TNJ  | A            | 47                  | 6.3                     | 85                           | 4                          | 125                             | 2.8                 | 10                | 1.6                            | 217                     | 195  | 87    | 1   |
| TAJB476*006TNJ  | B            | 47                  | 6.3                     | 85                           | 4                          | 125                             | 3                   | 6                 | 2                              | 206                     | 186  | 82    | 1   |
| TAJC476*006TNJ  | C            | 47                  | 6.3                     | 85                           | 4                          | 125                             | 3                   | 6                 | 1.6                            | 262                     | 236  | 105   | 1   |
| TAJB686*006TNJ  | B            | 68                  | 6.3                     | 85                           | 4                          | 125                             | 4                   | 8                 | 0.9                            | 307                     | 277  | 123   | 1   |
| TAJC686*006TNJ  | C            | 68                  | 6.3                     | 85                           | 4                          | 125                             | 4.3                 | 6                 | 1.5                            | 271                     | 244  | 108   | 1   |
| TAJB107*006TNJ  | B            | 100                 | 6.3                     | 85                           | 4                          | 125                             | 6.3                 | 10                | 1.4                            | 246                     | 222  | 99    | 1   |
| TAJC107*006TNJ  | C            | 100                 | 6.3                     | 85                           | 4                          | 125                             | 6.3                 | 6                 | 0.9                            | 350                     | 315  | 140   | 1   |
| TAJD107*006TNJV | D            | 100                 | 6.3                     | 85                           | 4                          | 125                             | 6.3                 | 6                 | 0.9                            | 408                     | 367  | 163   | 3   |
| TAJY107*006TNJV | Y            | 100                 | 6.3                     | 85                           | 4                          | 125                             | 6.3                 | 6                 | 0.7                            | 423                     | 380  | 169   | 3   |
| TAJC157*006TNJ  | C            | 150                 | 6.3                     | 85                           | 4                          | 125                             | 9.5                 | 6                 | 1.3                            | 291                     | 262  | 116   | 1   |
| TAJD157*006TNJV | D            | 150                 | 6.3                     | 85                           | 4                          | 125                             | 9.5                 | 6                 | 0.9                            | 408                     | 367  | 163   | 3   |
| TAJY157*006TNJV | Y            | 150                 | 6.3                     | 85                           | 4                          | 125                             | 9.5                 | 6                 | 0.4                            | 559                     | 503  | 224   | 3   |
| TAJC227*006TNJ  | C            | 220                 | 6.3                     | 85                           | 4                          | 125                             | 8.8                 | 8                 | 1.2                            | 303                     | 272  | 121   | 1   |
| TAJD227*006TNJV | D            | 220                 | 6.3                     | 85                           | 4                          | 125                             | 13.9                | 8                 | 0.4                            | 612                     | 551  | 245   | 3   |
| TAJY227*006TNJV | Y            | 220                 | 6.3                     | 85                           | 4                          | 125                             | 13.9                | 8                 | 0.7                            | 423                     | 380  | 169   | 3   |
| TAJD337*006TNJV | D            | 330                 | 6.3                     | 85                           | 4                          | 125                             | 20.8                | 8                 | 0.4                            | 612                     | 551  | 245   | 3   |
| TAJE337*006TNJV | E            | 330                 | 6.3                     | 85                           | 4                          | 125                             | 20.8                | 8                 | 0.4                            | 642                     | 578  | 257   | 3   |
| TAJD477*006TNJV | D            | 470                 | 6.3                     | 85                           | 4                          | 125                             | 28                  | 12                | 0.4                            | 612                     | 551  | 245   | 3   |
| TAJE477*006TNJV | E            | 470                 | 6.3                     | 85                           | 4                          | 125                             | 28                  | 10                | 0.4                            | 642                     | 578  | 257   | 3   |
| TAJD687*006TNJV | D            | 680                 | 6.3                     | 85                           | 4                          | 125                             | 40.8                | 20                | 0.5                            | 548                     | 493  | 219   | 3   |
| TAJE687*006TNJV | E            | 680                 | 6.3                     | 85                           | 4                          | 125                             | 42.8                | 10                | 0.5                            | 574                     | 517  | 230   | 3   |
| 10 Volt @ 85°C  |              |                     |                         |                              |                            |                                 |                     |                   |                                |                         |      |       |     |
| TAJA225*010TNJ  | A            | 2.2                 | 10                      | 85                           | 7                          | 125                             | 0.5                 | 6                 | 7                              | 104                     | 93   | 41    | 1   |
| TAJA475*010TNJ  | A            | 4.7                 | 10                      | 85                           | 7                          | 125                             | 0.5                 | 6                 | 5                              | 122                     | 110  | 49    | 1   |
| TAJB475*010TNJ  | B            | 4.7                 | 10                      | 85                           | 7                          | 125                             | 0.5                 | 6                 | 4                              | 146                     | 131  | 58    | 1   |
| TAJA685*010TNJ  | A            | 6.8                 | 10                      | 85                           | 7                          | 125                             | 0.7                 | 6                 | 4                              | 137                     | 123  | 55    | 1   |
| TAJB685*010TNJ  | B            | 6.8                 | 10                      | 85                           | 7                          | 125                             | 0.7                 | 6                 | 3                              | 168                     | 151  | 67    | 1   |
| TAJA106*010TNJ  | A            | 10                  | 10                      | 85                           | 7                          | 125                             | 1                   | 6                 | 3                              | 158                     | 142  | 63    | 1   |
| TAJB106*010TNJ  | B            | 10                  | 10                      | 85                           | 7                          | 125                             | 1                   | 6                 | 2.1                            | 201                     | 181  | 80    | 1   |
| TAJA156*010TNJ  | A            | 15                  | 10                      | 85                           | 7                          | 125                             | 1.5                 | 6                 | 3.2                            | 153                     | 138  | 61    | 1   |
| TAJB156*010TNJ  | B            | 15                  | 10                      | 85                           | 7                          | 125                             | 1.5                 | 6                 | 2.8                            | 174                     | 157  | 70    | 1   |
| TAJC156*010TNJ  | C            | 15                  | 10                      | 85                           | 7                          | 125                             | 1.5                 | 6                 | 2                              | 235                     | 211  | 94    | 1   |
| TAJA226*010TNJ  | A            | 22                  | 10                      | 85                           | 7                          | 125                             | 2.2                 | 8                 | 3                              | 158                     | 142  | 63    | 1   |
| TAJB226*010TNJ  | B            | 22                  | 10                      | 85                           | 7                          | 125                             | 2.2                 | 6                 | 2.4                            | 188                     | 169  | 75    | 1   |
| TAJC226*010TNJ  | C            | 22                  | 10                      | 85                           | 7                          | 125                             | 2.2                 | 6                 | 1.8                            | 247                     | 222  | 99    | 1   |
| TAJB336*010TNJ  | B            | 33                  | 10                      | 85                           | 7                          | 125                             | 3.3                 | 6                 | 1.8                            | 217                     | 196  | 87    | 1   |
| TAJC336*010TNJ  | C            | 33                  | 10                      | 85                           | 7                          | 125                             | 3.3                 | 6                 | 1.6                            | 262                     | 236  | 105   | 1   |
| TAJB476*010TNJ  | B            | 47                  | 10                      | 85                           | 7                          | 125                             | 4.7                 | 8                 | 1                              | 292                     | 262  | 117   | 1   |
| TAJC476*010TNJ  | C            | 47                  | 10                      | 85                           | 7                          | 125                             | 4.7                 | 6                 | 1.2                            | 303                     | 272  | 121   | 1   |
| TAJD476*010TNJV | D            | 47                  | 10                      | 85                           | 7                          | 125                             | 4.7                 | 6                 | 0.4                            | 612                     | 551  | 245   | 3   |
| TAJB686*010TNJ  | B            | 68                  | 10                      | 85                           | 7                          | 125                             | 6.8                 | 8                 | 1.4                            | 246                     | 222  | 99    | 1   |
| TAJC686*010TNJ  | C            | 68                  | 10                      | 85                           | 7                          | 125                             | 6.8                 | 6                 | 1.3                            | 291                     | 262  | 116   | 1   |
| TAJD686*010TNJV | D            | 68                  | 10                      | 85                           | 7                          | 125                             | 6.8                 | 6                 | 0.9                            | 408                     | 367  | 163   | 3   |
| TAJY686*010TNJV | Y            | 68                  | 10                      | 85                           | 7                          | 125                             | 6.8                 | 6                 | 0.9                            | 373                     | 335  | 149   | 3   |
| TAJC107*010TNJ  | C            | 100                 | 10                      | 85                           | 7                          | 125                             | 10                  | 8                 | 1.2                            | 303                     | 272  | 121   | 1   |
| TAJD107*010TNJV | D            | 100                 | 10                      | 85                           | 7                          | 125                             | 10                  | 6                 | 0.9                            | 408                     | 367  | 163   | 3   |
| TAJY107*010TNJV | Y            | 100                 | 10                      | 85                           | 7                          | 125                             | 10                  | 6                 | 0.9                            | 373                     | 335  | 149   | 3   |
| TAJD157*010TNJV | D            | 150                 | 10                      | 85                           | 7                          | 125                             | 15                  | 8                 | 0.9                            | 408                     | 367  | 163   | 3   |
| TAJE157*010TNJV | E            | 150                 | 10                      | 85                           | 7                          | 125                             | 15                  | 8                 | 0.9                            | 428                     | 385  | 171   | 3   |
| TAJY157*010TNJV | Y            | 150                 | 10                      | 85                           | 7                          | 125                             | 15                  | 6                 | 1.2                            | 323                     | 290  | 129   | 3   |
| TAJD227*010TNJV | D            | 220                 | 10                      | 85                           | 7                          | 125                             | 22                  | 8                 | 0.5                            | 548                     | 493  | 219   | 3   |
| TAJE227*010TNJV | E            | 220                 | 10                      | 85                           | 7                          | 125                             | 22                  | 8                 | 0.5                            | 574                     | 517  | 230   | 3   |
| TAJD337*010TNJV | D            | 330                 | 10                      | 85                           | 7                          | 125                             | 33                  | 8                 | 0.9                            | 408                     | 367  | 163   | 3   |
| TAJE337*010TNJV | E            | 330                 | 10                      | 85                           | 7                          | 125                             | 33                  | 8                 | 0.9                            | 428                     | 385  | 171   | 3   |
| 16 Volt @ 85°C  |              |                     |                         |                              |                            |                                 |                     |                   |                                |                         |      |       |     |
| TAJA105*016TNJ  | A            | 1                   | 16                      | 85                           | 10                         | 125                             | 0.5                 | 4                 | 11                             | 83                      | 74   | 33    | 1   |
| TAJA225*016TNJ  | A            | 2.2                 | 16                      | 85                           | 10                         | 125                             | 0.5                 | 6                 | 6.5                            | 107                     | 97   | 43    | 1   |
| TAJA335*016TNJ  | A            | 3.3                 | 16                      | 85                           | 10                         | 125                             | 0.5                 | 6                 | 5                              | 122                     | 110  | 49    | 1   |
| TAJB335*016TNJ  | B            | 3.3                 | 16                      | 85                           | 10                         | 125                             | 0.5                 | 6                 | 4.5                            | 137                     | 124  | 55    | 1   |
| TAJA475*016TNJ  | A            | 4.7                 | 16                      | 85                           | 10                         | 125                             | 0.8                 | 6                 | 4                              | 137                     | 123  | 55    | 1   |

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### RATINGS & PART NUMBER REFERENCE

| AVX Part No.    | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL Max. (µA) | DF Max. (%) | ESR Max. @ 100kHz (Ω) | 100kHz RMS Current (mA) |      |       | MSL |
|-----------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|-----------------------|-------------------------|------|-------|-----|
|                 |           |                  |                   |                        |                      |                           |               |             |                       | 25°C                    | 85°C | 125°C |     |
| TAJB475*016TNJ  | B         | 4.7              | 16                | 85                     | 10                   | 125                       | 0.8           | 6           | 3.5                   | 156                     | 140  | 62    | 1   |
| TAJA685*016TNJ  | A         | 6.8              | 16                | 85                     | 10                   | 125                       | 1.1           | 6           | 3.5                   | 146                     | 132  | 59    | 1   |
| TAJB685*016TNJ  | B         | 6.8              | 16                | 85                     | 10                   | 125                       | 1.1           | 6           | 2.5                   | 184                     | 166  | 74    | 1   |
| TAJA106*016TNJ  | A         | 10               | 16                | 85                     | 10                   | 125                       | 1.6           | 6           | 3                     | 158                     | 142  | 63    | 1   |
| TAJB106*016TNJ  | B         | 10               | 16                | 85                     | 10                   | 125                       | 1.6           | 6           | 2.5                   | 184                     | 166  | 74    | 1   |
| TAJC106*016TNJ  | C         | 10               | 16                | 85                     | 10                   | 125                       | 1.6           | 6           | 2                     | 235                     | 211  | 94    | 1   |
| TAJB156*016TNJ  | B         | 15               | 16                | 85                     | 10                   | 125                       | 2.4           | 6           | 2.5                   | 184                     | 166  | 74    | 1   |
| TAJC156*016TNJ  | C         | 15               | 16                | 85                     | 10                   | 125                       | 2.4           | 6           | 1.8                   | 247                     | 222  | 99    | 1   |
| TAJB226*016TNJ  | B         | 22               | 16                | 85                     | 10                   | 125                       | 3.5           | 6           | 2.3                   | 192                     | 173  | 77    | 1   |
| TAJC226*016TNJ  | C         | 22               | 16                | 85                     | 10                   | 125                       | 3.5           | 6           | 1                     | 332                     | 298  | 133   | 1   |
| TAJD226*016TNJV | D         | 22               | 16                | 85                     | 10                   | 125                       | 3.5           | 6           | 1.1                   | 369                     | 332  | 148   | 3   |
| TAJC336*016TNJ  | C         | 33               | 16                | 85                     | 10                   | 125                       | 5.3           | 6           | 1.5                   | 271                     | 244  | 108   | 1   |
| TAJD336*016TNJV | D         | 33               | 16                | 85                     | 10                   | 125                       | 5.3           | 6           | 0.9                   | 408                     | 367  | 163   | 3   |
| TAJY336*016TNJV | Y         | 33               | 16                | 85                     | 10                   | 125                       | 5.3           | 6           | 0.9                   | 373                     | 335  | 149   | 3   |
| TAJC476*016TNJ  | C         | 47               | 16                | 85                     | 10                   | 125                       | 7.5           | 6           | 0.5                   | 469                     | 422  | 188   | 1   |
| TAJD476*016TNJV | D         | 47               | 16                | 85                     | 10                   | 125                       | 7.5           | 6           | 0.9                   | 408                     | 367  | 163   | 3   |
| TAJY476*016TNJV | Y         | 47               | 16                | 85                     | 10                   | 125                       | 7.5           | 6           | 0.7                   | 423                     | 380  | 169   | 3   |
| TAJC686*016TNJ  | C         | 68               | 16                | 85                     | 10                   | 125                       | 10.9          | 6           | 1.3                   | 291                     | 262  | 116   | 1   |
| TAJD686*016TNJV | D         | 68               | 16                | 85                     | 10                   | 125                       | 10.9          | 6           | 0.9                   | 408                     | 367  | 163   | 3   |
| TAJY686*016TNJV | Y         | 68               | 16                | 85                     | 10                   | 125                       | 10.9          | 6           | 0.9                   | 373                     | 335  | 149   | 3   |
| TAJD107*016TNJV | D         | 100              | 16                | 85                     | 10                   | 125                       | 16            | 6           | 0.6                   | 500                     | 450  | 200   | 3   |
| TAJE107*016TNJV | E         | 100              | 16                | 85                     | 10                   | 125                       | 16            | 6           | 0.9                   | 428                     | 385  | 171   | 3   |
| TAJD157*016TNJV | D         | 150              | 16                | 85                     | 10                   | 125                       | 24            | 6           | 0.9                   | 406                     | 367  | 163   | 3   |
| TAJE157*016TNJV | E         | 150              | 16                | 85                     | 10                   | 125                       | 23            | 8           | 0.3                   | 742                     | 667  | 297   | 3   |
| TAJE227*016TNJV | E         | 220              | 16                | 85                     | 10                   | 125                       | 35.2          | 10          | 0.5                   | 574                     | 517  | 230   | 3   |
| 20 Volt @ 85°C  |           |                  |                   |                        |                      |                           |               |             |                       |                         |      |       |     |
| TAJA105*020TNJ  | A         | 1                | 20                | 85                     | 13                   | 125                       | 0.5           | 4           | 9                     | 91                      | 82   | 37    | 1   |
| TAJA155*020TNJ  | A         | 1.5              | 20                | 85                     | 13                   | 125                       | 0.5           | 6           | 6.5                   | 107                     | 97   | 43    | 1   |
| TAJA225*020TNJ  | A         | 2.2              | 20                | 85                     | 13                   | 125                       | 0.5           | 6           | 5.3                   | 119                     | 107  | 48    | 1   |
| TAJB225*020TNJ  | B         | 2.2              | 20                | 85                     | 13                   | 125                       | 0.5           | 6           | 3.5                   | 156                     | 140  | 62    | 1   |
| TAJA335*020TNJ  | A         | 3.3              | 20                | 85                     | 13                   | 125                       | 0.7           | 6           | 4.5                   | 129                     | 116  | 52    | 1   |
| TAJB335*020TNJ  | B         | 3.3              | 20                | 85                     | 13                   | 125                       | 0.7           | 6           | 3                     | 168                     | 151  | 67    | 1   |
| TAJA475*020TNJ  | A         | 4.7              | 20                | 85                     | 13                   | 125                       | 0.9           | 6           | 4                     | 137                     | 123  | 55    | 1   |
| TAJB475*020TNJ  | B         | 4.7              | 20                | 85                     | 13                   | 125                       | 0.9           | 6           | 3                     | 168                     | 151  | 67    | 1   |
| TAJA685*020TNJ  | A         | 6.8              | 20                | 85                     | 13                   | 125                       | 1.4           | 6           | 2.4                   | 177                     | 159  | 71    | 1   |
| TAJB685*020TNJ  | B         | 6.8              | 20                | 85                     | 13                   | 125                       | 1.4           | 6           | 2.5                   | 184                     | 166  | 74    | 1   |
| TAJC685*020TNJ  | C         | 6.8              | 20                | 85                     | 13                   | 125                       | 1.4           | 6           | 2                     | 235                     | 211  | 94    | 1   |
| TAJB106*020TNJ  | B         | 10               | 20                | 85                     | 13                   | 125                       | 2             | 6           | 2.1                   | 201                     | 181  | 80    | 1   |
| TAJC106*020TNJ  | C         | 10               | 20                | 85                     | 13                   | 125                       | 2             | 6           | 1.2                   | 303                     | 272  | 121   | 1   |
| TAJB156*020TNJ  | B         | 15               | 20                | 85                     | 13                   | 125                       | 3             | 6           | 2                     | 206                     | 186  | 82    | 1   |
| TAJC156*020TNJ  | C         | 15               | 20                | 85                     | 13                   | 125                       | 3             | 6           | 1.7                   | 254                     | 229  | 102   | 1   |
| TAJC226*020TNJ  | C         | 22               | 20                | 85                     | 13                   | 125                       | 4.4           | 6           | 1.6                   | 262                     | 236  | 105   | 1   |
| TAJD226*020TNJV | D         | 22               | 20                | 85                     | 13                   | 125                       | 4.4           | 6           | 0.9                   | 408                     | 367  | 163   | 3   |
| TAJY226*020TNJV | Y         | 22               | 20                | 85                     | 13                   | 125                       | 4.4           | 6           | 0.9                   | 373                     | 335  | 149   | 3   |
| TAJC336*020TNJ  | C         | 33               | 20                | 85                     | 13                   | 125                       | 6.6           | 6           | 1.5                   | 271                     | 244  | 108   | 1   |
| TAJD336*020TNJV | D         | 33               | 20                | 85                     | 13                   | 125                       | 6.6           | 6           | 0.9                   | 408                     | 367  | 163   | 3   |
| TAJY336*020TNJV | Y         | 33               | 20                | 85                     | 13                   | 125                       | 6.6           | 6           | 0.6                   | 456                     | 411  | 183   | 3   |
| TAJD476*020TNJV | D         | 47               | 20                | 85                     | 13                   | 125                       | 9.4           | 6           | 0.9                   | 408                     | 367  | 163   | 3   |
| TAJY476*020TNJV | Y         | 47               | 20                | 85                     | 13                   | 125                       | 9.4           | 6           | 0.9                   | 373                     | 335  | 149   | 3   |
| TAJD686*020TNJV | D         | 68               | 20                | 85                     | 13                   | 125                       | 13.6          | 6           | 0.4                   | 612                     | 551  | 245   | 3   |
| TAJE686*020TNJV | E         | 68               | 20                | 85                     | 13                   | 125                       | 13.6          | 6           | 0.9                   | 428                     | 385  | 171   | 3   |
| TAJE107*020TNJV | E         | 100              | 20                | 85                     | 13                   | 125                       | 20            | 6           | 0.4                   | 642                     | 578  | 257   | 3   |
| 25 Volt @ 85°C  |           |                  |                   |                        |                      |                           |               |             |                       |                         |      |       |     |
| TAJA474*025TNJ  | A         | 0.47             | 25                | 85                     | 17                   | 125                       | 0.5           | 4           | 14                    | 73                      | 66   | 29    | 1   |
| TAJA684*025TNJ  | A         | 0.68             | 25                | 85                     | 17                   | 125                       | 0.5           | 4           | 10                    | 87                      | 78   | 35    | 1   |
| TAJA105*025TNJ  | A         | 1                | 25                | 85                     | 17                   | 125                       | 0.5           | 4           | 8                     | 97                      | 87   | 39    | 1   |
| TAJA155*025TNJ  | A         | 1.5              | 25                | 85                     | 17                   | 125                       | 0.5           | 6           | 7.5                   | 100                     | 90   | 40    | 1   |
| TAJB155*025TNJ  | B         | 1.5              | 25                | 85                     | 17                   | 125                       | 0.5           | 6           | 5                     | 130                     | 117  | 52    | 1   |
| TAJA225*025TNJ  | A         | 2.2              | 25                | 85                     | 17                   | 125                       | 0.6           | 6           | 7                     | 104                     | 93   | 41    | 1   |
| TAJB225*025TNJ  | B         | 2.2              | 25                | 85                     | 17                   | 125                       | 0.6           | 6           | 4.5                   | 137                     | 124  | 55    | 1   |
| TAJA335*025TNJ  | A         | 3.3              | 25                | 85                     | 17                   | 125                       | 0.8           | 6           | 3.7                   | 142                     | 128  | 57    | 1   |
| TAJB335*025TNJ  | B         | 3.3              | 25                | 85                     | 17                   | 125                       | 0.8           | 6           | 3.5                   | 156                     | 140  | 62    | 1   |
| TAJB475*025TNJ  | B         | 4.7              | 25                | 85                     | 17                   | 125                       | 1.2           | 6           | 1.5                   | 238                     | 214  | 95    | 1   |
| TAJC475*025TNJ  | C         | 4.7              | 25                | 85                     | 17                   | 125                       | 1.2           | 6           | 2.4                   | 214                     | 193  | 86    | 1   |
| TAJB685*025TNJ  | B         | 6.8              | 25                | 85                     | 17                   | 125                       | 1.7           | 6           | 2.8                   | 174                     | 157  | 70    | 1   |
| TAJC685*025TNJ  | C         | 6.8              | 25                | 85                     | 17                   | 125                       | 1.7           | 6           | 2                     | 235                     | 211  | 94    | 1   |
| TAJC106*025TNJ  | C         | 10               | 25                | 85                     | 17                   | 125                       | 2.5           | 6           | 1.8                   | 247                     | 222  | 99    | 1   |
| TAJD106*025TNJV | D         | 10               | 25                | 85                     | 17                   | 125                       | 2.5           | 6           | 1.2                   | 354                     | 318  | 141   | 3   |
| TAJC156*025TNJ  | C         | 15               | 25                | 85                     | 17                   | 125                       | 3.8           | 6           | 1.6                   | 262                     | 236  | 105   | 1   |
| TAJD156*025TNJV | D         | 15               | 25                | 85                     | 17                   | 125                       | 3.8           | 6           | 1                     | 387                     | 349  | 155   | 3   |
| TAJY156*025TNJV | Y         | 15               | 25                | 85                     | 17                   | 125                       | 3.8           | 6           | 1                     | 354                     | 318  | 141   | 3   |
| TAJC226*025TNJ  | C         | 22               | 25                | 85                     | 17                   | 125                       | 5.5           | 6           | 1.4                   | 280                     | 252  | 112   | 1   |



### RATINGS & PART NUMBER REFERENCE

| AVX<br>Part No. | Case<br>Size | Capacitance<br>(µF) | Rated<br>Voltage<br>(V) | Rated<br>Temperature<br>(°C) | Category<br>Voltage<br>(V) | Category<br>Temperature<br>(°C) | DCL<br>Max.<br>(µA) | DF<br>Max.<br>(%) | ESR<br>Max.<br>@ 100kHz<br>(Ω) | 100kHz RMS Current (mA) |      |       | MSL |
|-----------------|--------------|---------------------|-------------------------|------------------------------|----------------------------|---------------------------------|---------------------|-------------------|--------------------------------|-------------------------|------|-------|-----|
|                 |              |                     |                         |                              |                            |                                 |                     |                   |                                | 25°C                    | 85°C | 125°C |     |
| 35 Volt @ 85°C  |              |                     |                         |                              |                            |                                 |                     |                   |                                |                         |      |       |     |
| TAJD226*025TNJV | D            | 22                  | 25                      | 85                           | 17                         | 125                             | 5.5                 | 6                 | 0.9                            | 408                     | 367  | 163   | 3   |
| TAJY226*025TNJV | Y            | 22                  | 25                      | 85                           | 17                         | 125                             | 5.5                 | 6                 | 0.8                            | 395                     | 356  | 158   | 3   |
| TAJD336*025TNJV | D            | 33                  | 25                      | 85                           | 17                         | 125                             | 8.3                 | 6                 | 0.9                            | 408                     | 367  | 163   | 3   |
| TAJD476*025TNJV | D            | 47                  | 25                      | 85                           | 17                         | 125                             | 11.8                | 6                 | 0.9                            | 408                     | 367  | 163   | 3   |
| TAJE476*025TNJV | E            | 47                  | 25                      | 85                           | 17                         | 125                             | 11.8                | 6                 | 0.9                            | 428                     | 385  | 171   | 3   |
| TAJE107*025TNJV | E            | 100                 | 25                      | 85                           | 17                         | 125                             | 25                  | 10                | 0.3                            | 742                     | 667  | 297   | 3   |
| TAJA334*035TNJ  | A            | 0.33                | 35                      | 85                           | 23                         | 125                             | 0.5                 | 4                 | 15                             | 71                      | 64   | 28    | 1   |
| TAJA474*035TNJ  | A            | 0.47                | 35                      | 85                           | 23                         | 125                             | 0.5                 | 4                 | 12                             | 79                      | 71   | 32    | 1   |
| TAJA684*035TNJ  | A            | 0.68                | 35                      | 85                           | 23                         | 125                             | 0.5                 | 4                 | 8                              | 97                      | 87   | 39    | 1   |
| TAJA105*035TNJ  | A            | 1                   | 35                      | 85                           | 23                         | 125                             | 0.5                 | 4                 | 7.5                            | 100                     | 90   | 40    | 1   |
| TAJB105*035TNJ  | B            | 1                   | 35                      | 85                           | 23                         | 125                             | 0.5                 | 4                 | 6.5                            | 114                     | 103  | 46    | 1   |
| TAJA155*035TNJ  | A            | 1.5                 | 35                      | 85                           | 23                         | 125                             | 0.5                 | 6                 | 7.5                            | 100                     | 90   | 40    | 1   |
| TAJB155*035TNJ  | B            | 1.5                 | 35                      | 85                           | 23                         | 125                             | 0.5                 | 6                 | 5.2                            | 128                     | 115  | 51    | 1   |
| TAJB225*035TNJ  | B            | 2.2                 | 35                      | 85                           | 23                         | 125                             | 0.8                 | 6                 | 4.2                            | 142                     | 128  | 57    | 1   |
| TAJC225*035TNJ  | C            | 2.2                 | 35                      | 85                           | 23                         | 125                             | 0.8                 | 6                 | 3.5                            | 177                     | 160  | 71    | 1   |
| TAJB335*035TNJ  | B            | 3.3                 | 35                      | 85                           | 23                         | 125                             | 1.2                 | 6                 | 3.5                            | 156                     | 140  | 62    | 1   |
| TAJC335*035TNJ  | C            | 3.3                 | 35                      | 85                           | 23                         | 125                             | 1.2                 | 6                 | 2.5                            | 210                     | 189  | 84    | 1   |
| TAJB475*035TNJ  | B            | 4.7                 | 35                      | 85                           | 23                         | 125                             | 1.6                 | 6                 | 3.1                            | 166                     | 149  | 66    | 1   |
| TAJC475*035TNJ  | C            | 4.7                 | 35                      | 85                           | 23                         | 125                             | 1.6                 | 6                 | 2.2                            | 224                     | 201  | 89    | 1   |
| TAJD475*035TNJV | D            | 4.7                 | 35                      | 85                           | 23                         | 125                             | 1.6                 | 6                 | 1.5                            | 316                     | 285  | 126   | 3   |
| TAJC685*035TNJ  | C            | 6.8                 | 35                      | 85                           | 23                         | 125                             | 2.4                 | 6                 | 1.8                            | 247                     | 222  | 99    | 1   |
| TAJD685*035TNJV | D            | 6.8                 | 35                      | 85                           | 23                         | 125                             | 2.4                 | 6                 | 1.3                            | 340                     | 306  | 136   | 3   |
| TAJC106*035TNJ  | C            | 10                  | 35                      | 85                           | 23                         | 125                             | 3.5                 | 6                 | 1.6                            | 262                     | 236  | 105   | 1   |
| TAJD106*035TNJV | D            | 10                  | 35                      | 85                           | 23                         | 125                             | 3.5                 | 6                 | 1                              | 387                     | 349  | 155   | 3   |
| TAJY106*035TNJV | Y            | 10                  | 35                      | 85                           | 23                         | 125                             | 3.5                 | 6                 | 1                              | 354                     | 318  | 141   | 3   |
| TAJD156*035TNJV | D            | 15                  | 35                      | 85                           | 23                         | 125                             | 5.3                 | 6                 | 0.9                            | 408                     | 367  | 163   | 3   |
| TAJY156*035TNJV | Y            | 15                  | 35                      | 85                           | 23                         | 125                             | 5.3                 | 6                 | 0.6                            | 456                     | 411  | 183   | 3   |
| TAJD226*035TNJV | D            | 22                  | 35                      | 85                           | 23                         | 125                             | 7.7                 | 6                 | 0.9                            | 408                     | 367  | 163   | 3   |
| TAJE226*035TNJV | E            | 22                  | 35                      | 85                           | 23                         | 125                             | 7.7                 | 6                 | 0.5                            | 574                     | 517  | 230   | 3   |
| TAJD336*035TNJV | D            | 33                  | 35                      | 85                           | 23                         | 125                             | 11.6                | 6                 | 0.9                            | 408                     | 367  | 163   | 3   |
| TAJE336*035TNJV | E            | 33                  | 35                      | 85                           | 23                         | 125                             | 11.6                | 6                 | 0.9                            | 428                     | 385  | 171   | 3   |
| 50 Volt @ 85°C  |              |                     |                         |                              |                            |                                 |                     |                   |                                |                         |      |       |     |
| TAJA224*050TNJ  | A            | 0.22                | 50                      | 85                           | 33                         | 125                             | 0.5                 | 4                 | 18                             | 65                      | 58   | 26    | 1   |
| TAJA334*050TNJ  | A            | 0.33                | 50                      | 85                           | 33                         | 125                             | 0.5                 | 4                 | 17                             | 66                      | 60   | 27    | 1   |
| TAJA474*050TNJ  | A            | 0.47                | 50                      | 85                           | 33                         | 125                             | 0.5                 | 4                 | 9.5                            | 89                      | 80   | 36    | 1   |
| TAJB474*050TNJ  | B            | 0.47                | 50                      | 85                           | 33                         | 125                             | 0.7                 | 4                 | 9.5                            | 95                      | 85   | 38    | 1   |
| TAJB684*050TNJ  | B            | 0.68                | 50                      | 85                           | 33                         | 125                             | 0.5                 | 4                 | 8                              | 103                     | 93   | 41    | 1   |
| TAJB105*050TNJ  | B            | 1                   | 50                      | 85                           | 33                         | 125                             | 0.5                 | 6                 | 7                              | 110                     | 99   | 44    | 1   |
| TAJC105*050TNJ  | C            | 1                   | 50                      | 85                           | 33                         | 125                             | 0.5                 | 4                 | 5.5                            | 141                     | 127  | 57    | 1   |
| TAJC155*050TNJ  | C            | 1.5                 | 50                      | 85                           | 33                         | 125                             | 0.8                 | 6                 | 4.5                            | 156                     | 141  | 63    | 1   |
| TAJC225*050TNJ  | C            | 2.2                 | 50                      | 85                           | 33                         | 125                             | 1.1                 | 8                 | 2.5                            | 210                     | 189  | 84    | 1   |
| TAJD225*050TNJV | D            | 2.2                 | 50                      | 85                           | 33                         | 125                             | 1.1                 | 6                 | 2.5                            | 245                     | 220  | 98    | 3   |
| TAJC335*050TNJ  | C            | 3.3                 | 50                      | 85                           | 33                         | 125                             | 1.6                 | 6                 | 2.5                            | 210                     | 189  | 84    | 1   |
| TAJD335*050TNJV | D            | 3.3                 | 50                      | 85                           | 33                         | 125                             | 1.7                 | 6                 | 2                              | 274                     | 246  | 110   | 3   |
| TAJC475*050TNJ  | C            | 4.7                 | 50                      | 85                           | 33                         | 125                             | 0.5                 | 4                 | 1.4                            | 280                     | 252  | 112   | 1   |
| TAJD475*050TNJV | D            | 4.7                 | 50                      | 85                           | 33                         | 125                             | 2.4                 | 6                 | 1.4                            | 327                     | 295  | 131   | 3   |
| TAJD685*050TNJV | D            | 6.8                 | 50                      | 85                           | 33                         | 125                             | 3.4                 | 6                 | 1                              | 387                     | 349  | 155   | 3   |
| TAJD106*050TNJV | D            | 10                  | 50                      | 85                           | 33                         | 125                             | 5                   | 6                 | 0.8                            | 433                     | 390  | 173   | 3   |
| TAJE106*050TNJV | E            | 10                  | 50                      | 85                           | 33                         | 125                             | 5                   | 6                 | 1                              | 406                     | 366  | 162   | 3   |
| TAJE156*050TNJV | E            | 15                  | 50                      | 85                           | 33                         | 125                             | 7.5                 | 6                 | 0.6                            | 524                     | 472  | 210   | 3   |

Moisture Sensitivity Level (MSL) is defined according to J-STD-020

\*Please use "U" instead of "T" in the suffix letter for 13" reel packaging

Please use specific PN for automotive version – see "HOW TO ORDER".

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts.

DCL is measured at rated voltage after 5 minutes.

For typical weight and composition see page 261.

**NOTE: AVX reserves the right to supply higher voltage ratings or tighter tolerance part in the same case size, to the same reliability standards.**

### QUALIFICATION TABLE

| TEST                         | TAJ automotive series (Temperature range -55°C to +125°C)                                                                                                                                                 |               |               |                    |                                    |           |           |           |            |           |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|--------------------|------------------------------------|-----------|-----------|-----------|------------|-----------|
|                              | Condition                                                                                                                                                                                                 |               |               | Characteristics    |                                    |           |           |           |            |           |
| <b>Endurance</b>             | Apply rated voltage (Ur) at 85°C and / or category voltage (Uc) at 125°C for 2000 hours through a circuit impedance of $\leq 0.1\Omega/V$ . Stabilize at room temperature for 1-2 hours before measuring. |               |               | Visual examination | no visible damage                  |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | DCL                | 1.25 x initial limit               |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | $\Delta C/C$       | within $\pm 10\%$ of initial value |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | DF                 | initial limit                      |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | ESR                | initial limit                      |           |           |           |            |           |
| <b>Storage Life</b>          | Store at 125°C, no voltage applied, for 2000 hours. Stabilize at room temperature for 1-2 hours before measuring.                                                                                         |               |               | Visual examination | no visible damage                  |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | DCL                | 1.25 x initial limit               |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | $\Delta C/C$       | within $\pm 10\%$ of initial value |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | DF                 | initial limit                      |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | ESR                | initial limit                      |           |           |           |            |           |
| <b>Humidity</b>              | Store at 65°C and 95% relative humidity for 500 hours, with no applied voltage. Stabilize at room temperature and humidity for 1-2 hours before measuring.                                                |               |               | Visual examination | no visible damage                  |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | DCL                | 1.5 x initial limit                |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | $\Delta C/C$       | within $\pm 10\%$ of initial value |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | DF                 | 1.2 x initial limit                |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | ESR                | initial limit                      |           |           |           |            |           |
| <b>Biased Humidity</b>       | Apply rated voltage (Ur) at 85°C, 85% relative humidity for 1000 hours. Stabilize at room temperature and humidity for 1-2 hours before measuring.                                                        |               |               | Visual examination | no visible damage                  |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | DCL                | 2 x initial limit                  |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | $\Delta C/C$       | within $\pm 10\%$ of initial value |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | DF                 | 1.2 x initial limit                |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | ESR                | initial limit                      |           |           |           |            |           |
| <b>Temperature Stability</b> | Step                                                                                                                                                                                                      | Temperature°C | Duration(min) |                    | +20°C                              | -55°C     | +20°C     | +85°C     | +125°C     | +20°C     |
|                              | 1                                                                                                                                                                                                         | +20           | 15            | DCL                | IL*                                | n/a       | IL*       | 10 x IL*  | 12.5 x IL* | IL*       |
|                              | 2                                                                                                                                                                                                         | -55           | 15            | $\Delta C/C$       | n/a                                | +0/-10%   | $\pm 5\%$ | +10/-0%   | +12/-0%    | $\pm 5\%$ |
|                              | 3                                                                                                                                                                                                         | +20           | 15            | DF                 | IL*                                | 1.5 x IL* | IL*       | 1.5 x IL* | 2 x IL*    | IL*       |
|                              | 4                                                                                                                                                                                                         | +85           | 15            | ESR                | IL*                                | 2 x IL*   | IL*       | IL*       | IL*        | IL*       |
|                              | 5                                                                                                                                                                                                         | +125          | 15            |                    |                                    |           |           |           |            |           |
|                              | 6                                                                                                                                                                                                         | +20           | 15            |                    |                                    |           |           |           |            |           |
| <b>Surge Voltage</b>         | Apply 1.3x category voltage (Uc) at 125°C for 1000 cycles of duration 6 min (30 sec charge, 5 min 30 sec discharge) through a charge / discharge resistance of 1000 $\Omega$                              |               |               | Visual examination | no visible damage                  |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | DCL                | initial limit                      |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | $\Delta C/C$       | within $\pm 5\%$ of initial value  |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | DF                 | initial limit                      |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | ESR                | initial limit                      |           |           |           |            |           |
| <b>Mechanical Shock</b>      | MIL-STD-202, Method 213, Condition F                                                                                                                                                                      |               |               | Visual examination | no visible damage                  |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | DCL                | initial limit                      |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | $\Delta C/C$       | within $\pm 5\%$ of initial value  |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | DF                 | initial limit                      |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | ESR                | initial limit                      |           |           |           |            |           |
| <b>Vibration</b>             | MIL-STD-202, Method 204, Condition D                                                                                                                                                                      |               |               | Visual examination | no visible damage                  |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | DCL                | initial limit                      |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | $\Delta C/C$       | within $\pm 5\%$ of initial value  |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | DF                 | initial limit                      |           |           |           |            |           |
|                              |                                                                                                                                                                                                           |               |               | ESR                | initial limit                      |           |           |           |            |           |

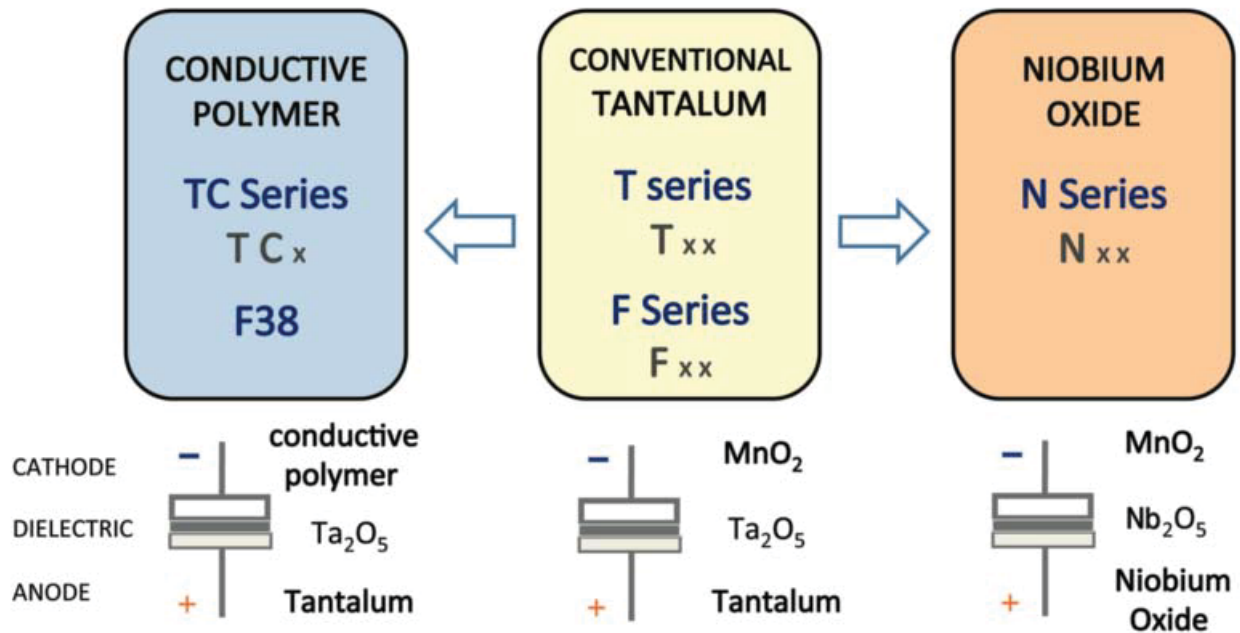
\*Initial Limit

# TAJ Automotive Range

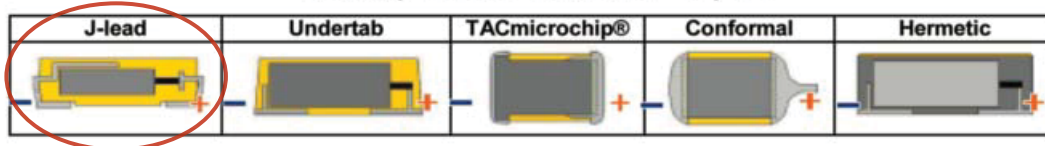


## Standard Tantalum - Automotive Product Range

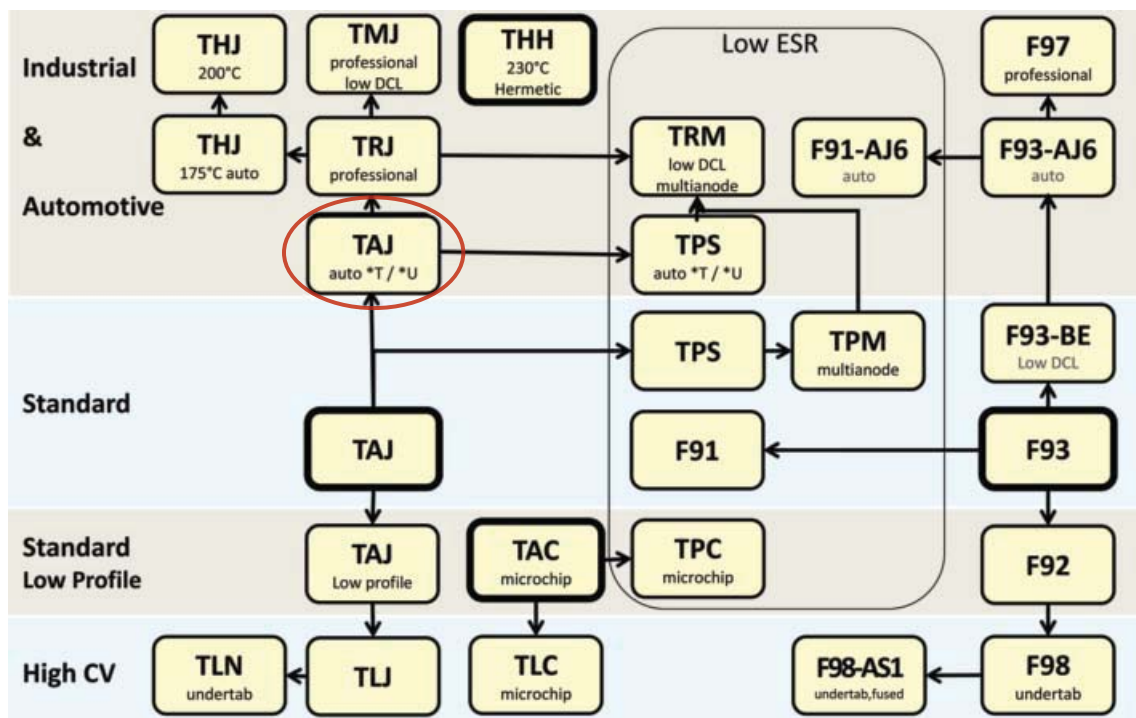
### AVX SOLID ELECTROLYTIC CAPACITOR ROADMAP



### Five Capacitor Construction Styles



### SERIES LINE UP: CONVENTIONAL SMD MnO<sub>2</sub>



# Mouser Electronics

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[TAJB106K016TNJ](#) [TAJB226K016TNJ](#) [TAJE107K020TNJV](#) [TAJB336M010TNJ](#) [TAJA105K035TNJ](#) [TAJA106K016TNJ](#)  
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[TAJY226M025TNJV](#) [TAJY686M016TNJV](#) [TAJY157M006TNJV](#) [TAJY336M016TNJV](#) [TAJY227M006TNJV](#)  
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[TAJY106M035TNJV](#) [TAJY476M016TNJV](#) [TAJB106K010TNJ](#) [TAJC476K010TNJ](#) [TAJE157K010TNJV](#)  
[TAJD476K010TNJV](#) [TAJC336K010TNJ](#) [TAJD157K010TNJV](#) [TAJA685K010TNJ](#) [TAJA156K010TNJ](#)  
[TAJC156K010TNJ](#) [TAJE227K010TNJV](#) [TAJA106K010TNJ](#) [TAJA225K010TNJ](#) [TAJC686K010TNJ](#) [TAJB336K010TNJ](#)  
[TAJD107K010TNJV](#) [TAJC107K010TNJ](#) [TAJA475K010TNJ](#) [TAJB156K010TNJ](#) [TAJD686K010TNJV](#)  
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