

# TLC Series



## Tantalum Solid Electrolytic Chip Capacitors Consumer Series



- High capacitance vs. voltage ratio
- Super high volumetric efficiency
- CV range: 0.47-220 $\mu$ F / 2-35V
- 10 case sizes available
- Consumer applications (portable hand-held electronics, cellular phones, digital equipments etc.)

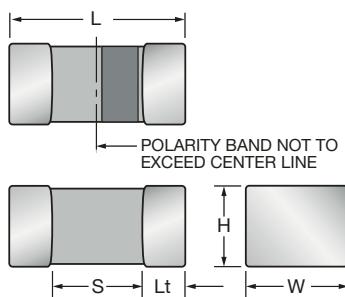


*SnPb termination option is not  
RoHS compliant.*

### CASE DIMENSIONS: millimeters (inches)

| Code     | EIA Code | EIA Metric | L+0.20 (0.008)<br>-0.00 (0.000)        | W+0.15 (0.006)<br>-0.00 (0.000)                                                                   | H+0.15 (0.006)<br>-0.00 (0.000)                                                                   | Termination Spacing(S) | Minimum Termination Length (Lt) |
|----------|----------|------------|----------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------|---------------------------------|
| <b>A</b> | 1206     | 3216-18    | 3.20 $\pm$ 0.20<br>(0.126 $\pm$ 0.008) | 1.60 $\pm$ 0.20<br>(0.063 $\pm$ 0.008)                                                            | 1.60 $\pm$ 0.20<br>(0.063 $\pm$ 0.008)                                                            | 1.80 (0.071) min       | 0.15 (0.006)                    |
| <b>C</b> | 1206     | 3216-10    | 3.20 $\pm$ 0.20<br>(0.126 $\pm$ 0.008) | 1.60 $\pm$ 0.20<br>(0.063 $\pm$ 0.008)                                                            | 1.00 (0.039) max                                                                                  | 1.80 (0.071) min       | 0.15 (0.006)                    |
| <b>H</b> | 0805     | 2012-10    | 2.00 (0.079)                           | 1.35 (0.053)                                                                                      | 1.00 (0.039) max                                                                                  | 0.70 (0.028) min       | 0.15 (0.006)                    |
| <b>J</b> | 0603     | 1608-08    | 1.60 (0.063)                           | 0.85 (0.033)                                                                                      | 0.75 (0.030) max                                                                                  | 0.55 (0.022) min       | 0.15 (0.006)                    |
| <b>K</b> | 0402     | 1005-07    | 1.00 (0.039)                           | 0.50 $\begin{smallmatrix} +0.20 \\ -0.00 \\ +0.008 \\ -0.000 \end{smallmatrix}$<br>(0.020 -0.000) | 0.50 $\begin{smallmatrix} +0.20 \\ -0.00 \\ +0.008 \\ -0.000 \end{smallmatrix}$<br>(0.020 -0.000) | 0.40 (0.016) min       | 0.10 (0.004)                    |
| <b>L</b> | 0603     | 1608-10    | 1.60 (0.063)                           | 0.85 (0.033)                                                                                      | 0.85 (0.033)                                                                                      | 0.55 (0.022) min       | 0.15 (0.006)                    |
| <b>M</b> | 0803     | 2008-10    | 2.00 (0.079)                           | 0.85 (0.033)                                                                                      | 0.85 (0.033)                                                                                      | 0.70 (0.028) min       | 0.15 (0.006)                    |
| <b>N</b> | 0402     | 1005-05    | 1.00 $\pm$ 0.05<br>(0.039 $\pm$ 0.002) | 0.50 $\begin{smallmatrix} +0.00 \\ -0.10 \\ +0.000 \\ -0.004 \end{smallmatrix}$<br>(0.020 -0.004) | 0.50 $\begin{smallmatrix} +0.00 \\ -0.10 \\ +0.000 \\ -0.004 \end{smallmatrix}$<br>(0.020 -0.004) | 0.40 (0.016) min       | 0.10 (0.004)                    |
| <b>Q</b> | 0805     | 2012-12    | 2.00 (0.079)                           | 1.35 (0.053)                                                                                      | 1.20 (0.047) max                                                                                  | 0.70 (0.028) min       | 0.15 (0.006)                    |
| <b>R</b> | 0805     | 2012-15    | 2.00 (0.079)                           | 1.35 (0.053)                                                                                      | 1.35 (0.053)                                                                                      | 0.70 (0.028) min       | 0.15 (0.006)                    |
| <b>S</b> | 1206     | 3216-12    | 3.20 $\pm$ 0.20<br>(0.126 $\pm$ 0.008) | 1.60 $\pm$ 0.20<br>(0.063 $\pm$ 0.008)                                                            | 1.20 (0.047) max                                                                                  | 1.80 (0.071) min       | 0.15 (0.006)                    |
| <b>T</b> | 1210     | 3528-12    | 3.50 $\pm$ 0.20<br>(0.138 $\pm$ 0.008) | 2.80 $\begin{smallmatrix} +0.20 \\ -0.10 \\ +0.008 \\ -0.004 \end{smallmatrix}$<br>(0.110 -0.004) | 1.20 (0.047) max                                                                                  | 2.00 (0.079) min       | 0.15 (0.006)                    |
| <b>U</b> | 0805     | 2012-06    | 2.00 (0.079)                           | 1.35 (0.053)                                                                                      | 0.60 (0.024) max                                                                                  | 0.70 (0.028) min       | 0.15 (0.006)                    |
| <b>V</b> | 1206     | 3216-08    | 3.20 $\pm$ 0.20<br>(0.126 $\pm$ 0.008) | 1.60 $\pm$ 0.20<br>(0.063 $\pm$ 0.008)                                                            | 0.75 (0.030) max                                                                                  | 1.80 (0.071) min       | 0.15 (0.006)                    |
| <b>Z</b> | 0602     | 1605-07    | 1.60 (0.063)                           | 0.50 $\begin{smallmatrix} +0.20 \\ -0.00 \\ +0.008 \\ -0.000 \end{smallmatrix}$<br>(0.020 -0.000) | 0.50 $\begin{smallmatrix} +0.20 \\ -0.00 \\ +0.008 \\ -0.000 \end{smallmatrix}$<br>(0.020 -0.000) | 0.55 (0.022) min       | 0.15 (0.006)                    |

Under development



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## Tantalum Solid Electrolytic Chip Capacitors Consumer Series

### HOW TO ORDER

| TLC  | L                               | 226                                                                                                                                             | M                   | 006                                                                                                                                                          | R                                                                                                                                                                                                                   | TA                                                   |
|------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Type | Case Size<br>See table<br>above | Capacitance Code<br>pF code: 1st two digits<br>represent significant figures,<br>3rd digit represents multiplier<br>(number of zeros to follow) | Tolerance<br>M=±20% | Rated DC Voltage<br>002=2Vdc<br>003=3Vdc<br>004=4Vdc<br>006=6.3Vdc<br>008=8Vdc<br>010=10Vdc<br>016=16Vdc<br>020=20Vdc<br>025=25Vdc<br>035=35Vdc<br>050=50Vdc | Packaging<br>R, P = 7" Standard Tin<br>Termination Plastic Tape<br>X, Q = 4 1/4" Standard Tin<br>Termination Plastic Tape<br>A = 7" Gold Termination<br>Plastic Tape<br>F = 4 1/4" Gold Termination<br>Plastic Tape | Standard<br>Suffix<br>OR<br><b>4000</b><br>ESR in mΩ |

### TECHNICAL SPECIFICATIONS

|                                    |                                                                                                        |     |     |     |     |     |    |     |    |      |      |    |
|------------------------------------|--------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|----|-----|----|------|------|----|
| Technical Data:                    | All technical data relate to an ambient temperature of +25°C                                           |     |     |     |     |     |    |     |    |      |      |    |
| Capacitance Range:                 | 0.33 µF to 470 µF                                                                                      |     |     |     |     |     |    |     |    |      |      |    |
| Capacitance Tolerance:             | ±20%                                                                                                   |     |     |     |     |     |    |     |    |      |      |    |
| Rated Voltage (V <sub>R</sub> )    | -55°C ≤ +40°C:                                                                                         | 2   | 3   | 4   | 6.3 | 8   | 10 | 16  | 20 | 25   | 35   | 50 |
| Category Voltage (V <sub>C</sub> ) | at 85°C:                                                                                               | 1   | 1.5 | 2   | 3.2 | 4   | 5  | 8   | 10 | 12.5 | 17.5 | 25 |
| Category Voltage (V <sub>C</sub> ) | at 125°C:                                                                                              | 0.4 | 0.6 | 0.8 | 1.3 | 1.6 | 2  | 3.2 | 4  | 5    | 7    | 10 |
| Temperature Range:                 | -55°C to +125°C with category voltage                                                                  |     |     |     |     |     |    |     |    |      |      |    |
| Reliability:                       | 0.2% per 1000 hours at 85°C, 0.5xV <sub>R</sub> with 0.1Ω/V series impedance with 60% confidence level |     |     |     |     |     |    |     |    |      |      |    |

### CAPACITANCE AND RATED VOLTAGE, VR (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

| Capacitance |      | Voltage Rating DC (V <sub>R</sub> ) to 40°C |      |            |               |    |                  |      |      |     |      |     |
|-------------|------|---------------------------------------------|------|------------|---------------|----|------------------|------|------|-----|------|-----|
| µF          | Code | 2.0V                                        | 3.0V | 4.0V       | 6.3V          | 8V | 10V              | 16V  | 20V  | 25V | 35V  | 50V |
| 0.33        | 334  |                                             |      |            |               |    |                  | J*   |      | L*  |      |     |
| 0.47        | 474  |                                             |      |            |               |    | N*               | K    |      |     |      |     |
| 0.68        | 684  |                                             |      |            |               |    |                  |      |      |     |      |     |
| 1.0         | 105  |                                             |      |            |               |    |                  | J*/K | J*   | L   | L*/R | R*  |
| 1.5         | 155  |                                             |      |            |               |    |                  |      |      |     |      |     |
| 2.2         | 225  |                                             |      |            |               |    | J*/K             | J*   | H/L* | H/R |      |     |
| 3.3         | 335  |                                             |      |            |               |    |                  | L    |      |     |      |     |
| 4.7         | 475  |                                             |      | K/N*       | K/U           |    | J/K*             |      |      |     | R*   |     |
| 6.8         | 685  |                                             | K    | K          |               |    | U                |      |      |     |      |     |
| 10          | 106  |                                             | K    | J/K/Z      | J/K/Z         |    | J*/K*/U/Z*       | V    | R    |     | A*   |     |
| 15          | 156  | K                                           | K*   | K/Z*       |               |    | H/L              |      |      |     |      |     |
| 22          | 226  | J                                           | J    | J*         | L/U           |    | L/M              |      |      | T*  |      |     |
| 33          | 336  |                                             |      | L          | H/L/L(4000)/U | L  | H/M*             |      |      |     |      |     |
| 47          | 476  | L                                           | L    | H/L        | H/L*          |    | C*/H*/L*/Q*/R/V* |      |      |     |      |     |
| 68          | 686  |                                             |      | R          | R             |    | A*/R*            |      |      |     |      |     |
| 100         | 107  |                                             | H*   | C*/H*/Q*/R | H*/R/V*       |    | R*/T             |      |      |     |      |     |
| 150         | 157  |                                             |      | R*         | R*            |    | A*               |      |      |     |      |     |
| 220         | 227  | R*                                          | S*   | A*/R*/T    | A*            |    | T*               |      |      |     |      |     |
| 330         | 337  |                                             |      | A*         | T*            |    |                  |      |      |     |      |     |
| 470         | 477  | A*                                          |      | A*/T*      |               |    |                  |      |      |     |      |     |
| 680         | 687  |                                             |      |            |               |    |                  |      |      |     |      |     |

Released Codes

Engineering samples - please contact manufacturer

\*Codes under development - subject to change.

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



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## Tantalum Solid Electrolytic Chip Capacitors Consumer Series

### RATINGS & PART NUMBER REFERENCE

| AVX Part No.                                               | EIA Code | EIA Metric | Case Size | Cap (μF) | Rated Voltage (V) | DCL (μA) Max. | ESR Max. (Ω) @100kHz | MSL |
|------------------------------------------------------------|----------|------------|-----------|----------|-------------------|---------------|----------------------|-----|
| <b>2 Volt @ 40°C (1 Volt @ 85°C, 0.4 Volt @ 125°C)</b>     |          |            |           |          |                   |               |                      |     |
| TLCK156M002#TA                                             | 0402     | 1005-07    | K         | 15       | 2                 | 0.5           | 15                   | 3   |
| TLCKJ226M002#TA                                            | 0603     | 1608-08    | J         | 22       | 2                 | 0.5           | 7.5                  | 3   |
| TLCL476M002#TA                                             | 0603     | 1608-10    | L         | 47       | 2                 | 0.9           | 7.5                  | 3   |
| TLCKR227M002#TA                                            | 0805     | 2012-15    | R         | 220      | 2                 | 4.4           | 5                    | 3   |
| TLCA477M002#TA                                             | 1206     | 3216-18    | A         | 470      | 2                 | 9.4           | 1                    | 3   |
| <b>3 Volt @ 40°C (1.5 Volt @ 85°C, 0.6 Volt @ 125°C)</b>   |          |            |           |          |                   |               |                      |     |
| TLCK685M003#TA                                             | 0402     | 1005-07    | K         | 6.8      | 3                 | 0.5           | 15                   | 3   |
| TLCK106M003#TA                                             | 0402     | 1005-07    | K         | 10       | 3                 | 0.5           | 15                   | 3   |
| TLCKJ156M003#TA                                            | 0402     | 1005-07    | K         | 15       | 3                 | 0.5           | 15                   | 3   |
| TLCKJ226M003#TA                                            | 0603     | 1608-08    | J         | 22       | 3                 | 0.7           | 7.5                  | 3   |
| TLCL476M003#TA                                             | 0603     | 1608-10    | L         | 47       | 3                 | 1.4           | 7.5                  | 3   |
| TLCH107M003#TA                                             | 0805     | 2012-10    | H         | 100      | 3                 | 3.0           | 5                    | 3   |
| TLCS227M003#TA                                             | 1206     | 3216-12    | S         | 220      | 3                 | 6.6           | 2                    | 3   |
| <b>4 Volt @ 40°C (2 Volt @ 85°C, 0.8 Volt @ 125°C)</b>     |          |            |           |          |                   |               |                      |     |
| TLCK475M004#TA                                             | 0402     | 1005-07    | K         | 4.7      | 4                 | 0.5           | 15                   | 3   |
| TLCKN475M004#TA                                            | 0402     | 1005-05    | N         | 4.7      | 4                 | 0.5           | 20                   | 3   |
| TLCK685M004#TA                                             | 0402     | 1005-07    | K         | 6.8      | 4                 | 0.5           | 15                   | 3   |
| TLCKJ106M004#TA                                            | 0603     | 1608-08    | J         | 10       | 4                 | 0.5           | 7.5                  | 3   |
| TLCKJ106M004#TA                                            | 0402     | 1005-07    | K         | 10       | 4                 | 0.5           | 15                   | 3   |
| TLCKZ106M004#TA                                            | 0602     | 1605-07    | Z         | 10       | 4                 | 0.5           | 15                   | 3   |
| TLCK156M004#TA                                             | 0402     | 1005-07    | K         | 15       | 4                 | 3.0           | 15                   | 3   |
| TLCKZ156M004#TA                                            | 0602     | 1605-07    | Z         | 15       | 4                 | 0.6           | 15                   | 3   |
| TLCKJ226M004#TA                                            | 0603     | 1608-08    | J         | 22       | 4                 | 0.9           | 7.5                  | 3   |
| TLCL336M004#TA                                             | 0603     | 1608-10    | L         | 33       | 4                 | 1.3           | 7.5                  | 3   |
| TLCH476M004#TA                                             | 0805     | 2012-10    | H         | 47       | 4                 | 1.9           | 5                    | 3   |
| TLCK476M004#TA                                             | 0603     | 1608-10    | L         | 47       | 4                 | 1.9           | 7.5                  | 3   |
| TLCKR686M004#TA                                            | 0805     | 2012-15    | R         | 68       | 4                 | 2.7           | 5                    | 3   |
| TLCC107M004#TA                                             | 1205     | 3216-10    | C         | 100      | 4                 | 4.0           | 2                    | 3   |
| TLCH107M004#TA                                             | 0805     | 2012-10    | H         | 100      | 4                 | 4.0           | 5                    | 3   |
| TLCKQ107M004#TA                                            | 0805     | 2012-12    | Q         | 100      | 4                 | 4.0           | 5                    | 3   |
| TLCKR107M004#TA                                            | 0805     | 2012-15    | R         | 100      | 4                 | 4.0           | 5                    | 3   |
| TLCKR157M004#TA                                            | 0805     | 2012-15    | R         | 150      | 4                 | 6.0           | 5                    | 3   |
| TLCA227M004#TA                                             | 1206     | 3216-18    | A         | 220      | 4                 | 8.8           | 1                    | 3   |
| TLCKR227M004#TA                                            | 0805     | 2012-15    | R         | 220      | 4                 | 8.8           | 5                    | 3   |
| TLCT227M004#TA                                             | 1210     | 3528-12    | T         | 220      | 4                 | 8.8           | 1                    | 3   |
| TLCA477M004#TA                                             | 1206     | 3216-18    | A         | 470      | 4                 | 18.8          | 1                    | 3   |
| <b>6.3 Volt @ 40°C (3.2 Volt @ 85°C, 1.3 Volt @ 125°C)</b> |          |            |           |          |                   |               |                      |     |
| TLCK475M006#TA                                             | 0402     | 1005-07    | K         | 4.7      | 6.3               | 0.5           | 15                   | 3   |
| TLCKU475M006#TA                                            | 0805     | 2012-06    | U         | 4.7      | 6.3               | 0.5           | 5                    | 3   |
| TLCKJ106M006#TA                                            | 0603     | 1608-08    | J         | 10       | 6.3               | 0.6           | 7.5                  | 3   |
| TLCK106M006#TA                                             | 0402     | 1005-07    | K         | 10       | 6.3               | 3.1           | 15                   | 3   |
| TLCKZ106M006#TA                                            | 0602     | 1605-07    | Z         | 10       | 6.3               | 0.6           | 15                   | 3   |
| TLCL226M006#TA                                             | 0603     | 1608-10    | L         | 22       | 6.3               | 1.4           | 7.5                  | 3   |
| TLCKU226M006#TA                                            | 0805     | 2012-06    | U         | 22       | 6.3               | 2.8           | 12                   | 3   |
| TLCK336M006#TA                                             | 0805     | 2012-10    | H         | 33       | 6.3               | 2.0           | 5                    | 3   |
| TLCL336M006#TA                                             | 0603     | 1608-10    | L         | 33       | 6.3               | 2.1           | 7.5                  | 3   |
| TLCL336M006#4000                                           | 0603     | 1608-10    | L         | 33       | 6.3               | 2.1           | 4                    | 3   |
| TLCKU336M006#TA                                            | 0805     | 2012-06    | U         | 33       | 6.3               | 10.4          | 7.5                  | 3   |
| TLCK476M006#TA                                             | 0805     | 2012-10    | H         | 47       | 6.3               | 3.0           | 5                    | 3   |
| TLCKR686M006#TA                                            | 0805     | 2012-15    | R         | 68       | 6.3               | 4.3           | 5                    | 3   |
| TLCKR107M006#TA                                            | 0805     | 2012-15    | R         | 100      | 6.3               | 6.0           | 5                    | 3   |
| TLCKR157M006#TA                                            | 0805     | 2012-15    | R         | 150      | 6.3               | 9.5           | 5                    | 3   |

| AVX Part No.                                             | EIA Code | EIA Metric | Case Size | Cap (μF) | Rated Voltage (V) | DCL (μA) Max. | ESR Max. (Ω) @100kHz | MSL |
|----------------------------------------------------------|----------|------------|-----------|----------|-------------------|---------------|----------------------|-----|
| <b>8 Volt @ 40°C (4 Volt @ 85°C, 1.6 Volt @ 125°C)</b>   |          |            |           |          |                   |               |                      |     |
| TLCL336M008#TA                                           | 0603     | 1608-08    | L         | 33       | 8                 | 26.4          | 10                   | 3   |
| <b>10 Volt @ 40°C (5 Volt @ 85°C, 2 Volt @ 125°C)</b>    |          |            |           |          |                   |               |                      |     |
| TLCKN474M010#TA                                          | 0402     | 1005-05    | N         | 0.47     | 10                | 0.5           | 20                   | 3   |
| TLCKJ225M010#TA                                          | 0603     | 1608-08    | J         | 2.2      | 10                | 0.5           | 7.5                  | 3   |
| TLCK225M010#TA                                           | 0402     | 1005-07    | K         | 2.2      | 10                | 0.5           | 15                   | 3   |
| TLCKJ475M010#TA                                          | 0603     | 1608-08    | J         | 4.7      | 10                | 0.5           | 10                   | 3   |
| TLCK475M010#TA                                           | 0402     | 1005-07    | K         | 4.7      | 10                | 0.5           | 15                   | 3   |
| TLCKU685M010#TA                                          | 0805     | 2012-06    | U         | 6.8      | 10                | 0.7           | 5                    | 3   |
| TLCKJ106M010#TA                                          | 0603     | 1608-08    | J         | 10       | 10                | 1.0           | 7.5                  | 3   |
| TLCKU106M010#TA                                          | 0805     | 2012-06    | U         | 10       | 10                | 1.0           | 5                    | 3   |
| TLCKZ106M010#TA                                          | 0602     | 1605-07    | Z         | 10       | 10                | 1.0           | 15                   | 3   |
| TLCH156M010#TA                                           | 0805     | 2012-10    | H         | 15       | 10                | 1.5           | 5                    | 3   |
| TLCL156M010#TA                                           | 0603     | 1608-08    | L         | 15       | 10                | 1.5           | 7.5                  | 3   |
| TLCL226M010#TA                                           | 0603     | 1608-10    | L         | 22       | 10                | 1.1           | 10                   | 3   |
| TLCKM226M010#TA                                          | 0803     | 2008-10    | M         | 22       | 10                | 2.2           | 7.5                  | 3   |
| TLCKH336M010#TA                                          | 0805     | 2012-10    | H         | 33       | 10                | 3.3           | 5                    | 3   |
| TLCKC476M010#TA                                          | 1205     | 3216-10    | C         | 47       | 10                | 4.7           | 2                    | 3   |
| TLCKQ476M010#TA                                          | 0805     | 2012-12    | Q         | 47       | 10                | 4.7           | 5                    | 3   |
| TLCKR476M010#TA                                          | 0805     | 2012-15    | R         | 47       | 10                | 4.7           | 5                    | 3   |
| TLCA686M010#TA                                           | 1206     | 3216-18    | A         | 68       | 10                | 6.8           | 1                    | 3   |
| TLCKR686M010#TA                                          | 0805     | 2012-15    | R         | 68       | 10                | 6.8           | 5                    | 3   |
| TLCKR107M010#TA                                          | 0805     | 2012-15    | R         | 100      | 10                | 10            | 5                    | 3   |
| TLCT107M010#TA                                           | 1210     | 3528-12    | T         | 100      | 10                | 10            | 1                    | 3   |
| <b>16 Volt @ 40°C (8 Volt @ 85°C, 3.2 Volt @ 125°C)</b>  |          |            |           |          |                   |               |                      |     |
| TLCKJ334M016#TA                                          | 0603     | 1608-08    | J         | 0.33     | 16                | 0.5           | 7.5                  | 3   |
| TLCK474M016#TA                                           | 0402     | 1005-07    | K         | 0.47     | 16                | 0.5           | 15                   | 3   |
| TLCKJ105M016#TA                                          | 0603     | 1608-08    | J         | 1.0      | 16                | 0.5           | 7.5                  | 3   |
| TLCK105M016#TA                                           | 0402     | 1005-07    | K         | 1        | 16                | 0.8           | 15                   | 3   |
| TLCKJ225M016#TA                                          | 0603     | 1608-08    | J         | 2.2      | 16                | 0.5           | 7.5                  | 3   |
| TLCL335M016#TA                                           | 0603     | 1608-10    | L         | 3.3      | 16                | 0.5           | 7.5                  | 3   |
| TLCKV106M016#TA                                          | 1206     | 1206-08    | V         | 10       | 16                | 1.6           | 2                    | 3   |
| <b>20 Volt @ 40°C (10 Volt @ 85°C, 4 Volt @ 125°C)</b>   |          |            |           |          |                   |               |                      |     |
| TLCKJ105M020#TA                                          | 0603     | 1608-08    | J         | 1.0      | 20                | 0.5           | 7.5                  | 3   |
| TLCKH225M020#TA                                          | 0805     | 2012-10    | H         | 2.2      | 20                | 0.5           | 5                    | 3   |
| TLCKL225M020#TA                                          | 0603     | 1608-10    | L         | 2.2      | 20                | 0.5           | 7.5                  | 3   |
| TLCKR106M020#TA                                          | 0805     | 2012-15    | R         | 10       | 20                | 2.0           | 5                    | 3   |
| <b>25 Volt @ 40°C (12.5 Volt @ 85°C, 5 Volt @ 125°C)</b> |          |            |           |          |                   |               |                      |     |
| TLCL334M025#TA                                           | 0603     | 1608-10    | L         | 0.33     | 25                | 0.5           | 7.5                  | 3   |
| TLCL105M025#TA                                           | 0603     | 1608-10    | L         | 1.0      | 25                | 0.5           | 7.5                  | 3   |
| TLCKH225M025#TA                                          | 0805     | 2012-10    | H         | 2.2      | 25                | 0.6           | 5                    | 3   |
| TLCKR225M025#TA                                          | 0805     | 2012-15    | R         | 2.2      | 25                | 0.6           | 5                    | 3   |
| TLCT226M025#TA                                           | 1210     | 3528-12    | T         | 22       | 25                | 5.5           | 1                    | 3   |
| <b>35 Volt @ 40°C (17.5 Volt @ 85°C, 7 Volt @ 125°C)</b> |          |            |           |          |                   |               |                      |     |
| TLCL105M035#TA                                           | 0603     | 1608-10    | L         | 1.0      | 35                | 0.5           | 7.5                  | 3   |
| TLCKR105M035#TA                                          | 0805     | 2012-15    | R         | 1.0      | 35                | 0.5           | 5                    | 3   |
| TLCKR475M035#TA                                          | 0805     | 2012-15    | R         | 4.7      | 35                | 1.6           | 5                    | 3   |
| TLCA106M035#TA                                           | 1206     | 3216-18    | A         | 10       | 35                | 3.5           | 1                    | 3   |

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

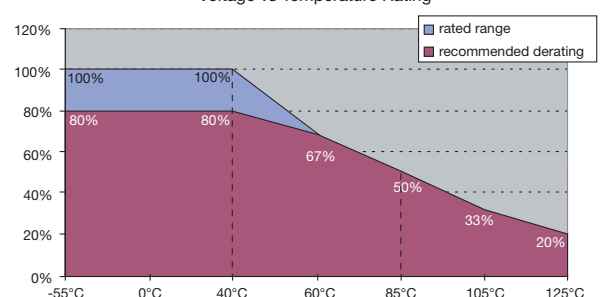
All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

DCL allowed to move up to 2.00 times the limit post mounting. ESR allowed to move up to 1.25 times the limit post mounting.

For typical weight and composition see page 142.

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

Voltage vs Temperature Rating





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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