

# TXK

## Aluminum Electrolytic Capacitors

+105°C Long Life, Radial Lead



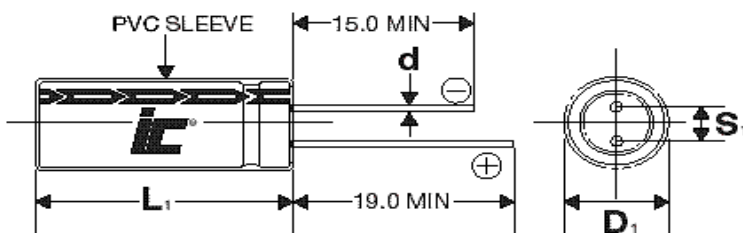
### FEATURES

High Temperature - High Voltage - Long Life

### APPLICATIONS

Switching Power Supplies - Electronic Ballasts

| Operating Temperature Range                              |       | -25°C to +105°C                                |     |                                  |      |     |     |     |      |
|----------------------------------------------------------|-------|------------------------------------------------|-----|----------------------------------|------|-----|-----|-----|------|
| Capacitance Tolerance                                    |       | ±20% at 120 Hz, 20°C                           |     |                                  |      |     |     |     |      |
| Surge voltage                                            | WVDC  | 160                                            | 200 | 250                              | 350  | 400 | 450 |     |      |
|                                                          | SVDC  | 200                                            | 250 | 300                              | 400  | 450 | 500 |     |      |
| Dissipation Factor                                       | WVDC  | 160                                            | 200 | 250                              | 350  | 400 | 450 |     |      |
|                                                          | tan δ | .15                                            | .15 | .15                              | .2   | .2  | .2  |     |      |
| Leakage current                                          |       | .02CV+25uA                                     |     |                                  |      |     |     |     |      |
|                                                          |       | 2 Minutes                                      |     |                                  |      |     |     |     |      |
| Low temperature stability<br>Impedance ratio<br>(120 Hz) |       | Rated WVDC                                     |     | 160                              | 200  | 250 | 350 | 400 | 450  |
|                                                          |       | -25°C to +20°C                                 |     | 3                                | 3    | 4   | 6   | 6   | 7    |
| Load Life                                                |       | 5000 hours with rated voltage applied at 105°C |     |                                  |      |     |     |     |      |
|                                                          |       | Capacitance change                             |     | ≤20% of initial measured value   |      |     |     |     |      |
|                                                          |       | Dissipation factor                             |     | ≤200% of maximum specified value |      |     |     |     |      |
|                                                          |       | Leakage current                                |     | ≤100% of maximum specified value |      |     |     |     |      |
| Shelf Life                                               |       | 1000 hours at 105°C with no voltage applied    |     |                                  |      |     |     |     |      |
|                                                          |       | Capacitance change                             |     | ≤20% of initial measured value   |      |     |     |     |      |
|                                                          |       | Dissipation factor                             |     | ≤200% of maximum specified value |      |     |     |     |      |
|                                                          |       | Leakage current                                |     | ≤100% of maximum specified value |      |     |     |     |      |
| Ripple Current Multipliers                               |       | Frequency (Hz)                                 |     |                                  |      |     |     |     |      |
|                                                          |       | WVDC                                           | 120 | 1k                               | 10k  |     |     |     | 100k |
|                                                          |       | ≤100                                           | 1   | 1.75                             | 2.25 |     |     |     | 2.5  |
|                                                          |       | >100                                           | 1   | 1.67                             | 2.05 |     |     |     | 2.25 |



Lead spacing VS. Case diameter

| D | 10  | 12.5 | 16  | 18  |
|---|-----|------|-----|-----|
| S | 5.0 | 5.0  | 7.5 | 7.5 |
| d | 0.6 | 0.6  | 0.8 | 0.8 |
| B | 1.5 | 1.5  | 1.5 | 1.5 |

L<sub>1</sub> = L + 1.5 (L < 20) mm

L<sub>1</sub> = L + 2 (L ≥ 20)

D<sub>1</sub> = D + 0.5

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# TXK

**+105°C, High Voltage Low  
Impedance Long Life, 5000  
hours**

| Capacitance<br>(μF) | WVDC | IC PART NUMBER | Maximum<br>ESR (Ω)<br>120 Hz,<br>+20°C | Maximum<br>RMS<br>Ripple<br>Current<br>(mA)<br>120 kHz,<br>+105°C | Dims DxL<br>(mm) |
|---------------------|------|----------------|----------------------------------------|-------------------------------------------------------------------|------------------|
| 2.2                 | 450  | 225TXK450MFH   | 150.715                                | 45                                                                | 8x11.5           |
| 3.3                 | 400  | 335TXK400MFH   | 100.477                                | 62                                                                | 8x11.5           |
| 3.3                 | 450  | 335TXK450MFBC  | 100.477                                | 62                                                                | 8x14             |
| 4.7                 | 350  | 475TXK350MFH   | 70.5474                                | 75                                                                | 8x11.5           |
| 4.7                 | 450  | 475TXK450MFBW  | 70.5474                                | 85                                                                | 8x16             |
| 6.8                 | 250  | 685TXK250MFBC  | 36.5705                                | 93                                                                | 8x14             |
| 6.8                 | 350  | 685TXK350MFBW  | 48.7607                                | 102                                                               | 8x16             |
| 6.8                 | 450  | 685TXK450MGBW  | 48.7607                                | 110                                                               | 10x16            |
| 8.2                 | 250  | 825TXK250MFBW  | 30.3267                                | 113                                                               | 8x16             |
| 10                  | 160  | 106TXK160MGU   | 24.868                                 | 122                                                               | 10x12.5          |
| 10                  | 350  | 106TXK350M     | 33.1573                                | 220                                                               | 10x20            |
| 10                  | 400  | 106TXK400MGBW  | 33.1573                                | 135                                                               | 10x16            |
| 10                  | 400  | 106TXK400M     | 33.1573                                | 130                                                               | 10x20            |
| 10                  | 450  | 106TXK450M     | 33.1573                                | 120                                                               | 13x26            |
| 10                  | 450  | 106TXK450MGJG  | 33.1573                                | 130                                                               | 10x20            |
| 15                  | 350  | 156TXK350MGJG  | 22.1049                                | 182                                                               | 10x20            |
| 15                  | 450  | 156TXK450MTJG  | 22.1049                                | 195                                                               | 12.5x20          |
| 22                  | 160  | 226TXK160MGBW  | 11.304                                 | 202                                                               | 10x16            |
| 22                  | 200  | 226TXK200M     | 11.304                                 | 350                                                               | 10x20            |
| 22                  | 250  | 226TXK250MGJG  | 11.304                                 | 225                                                               | 10x20            |
| 22                  | 350  | 226TXK350M     | 15.0715                                | 240                                                               | 12.5x20          |
| 22                  | 400  | 226TXK400MTJG  | 15.0715                                | 240                                                               | 12.5x20          |
| 22                  | 450  | 226TXK450MTJD  | 15.0715                                | 241                                                               | 12.5x25          |
| 33                  | 160  | 336TXK160M     | 7.536                                  | 275                                                               | 10x20            |
| 33                  | 200  | 336TXK200M     | 7.536                                  | 315                                                               | 12.5x20          |
| 33                  | 250  | 336TXK250MTJG  | 7.536                                  | 315                                                               | 12.5x20          |
| 33                  | 400  | 336TXK400MKJG  | 10.0477                                | 343                                                               | 16x20            |
| 33                  | 450  | 336TXK450MKJD  | 10.0477                                | 340                                                               | 16x25            |
| 47                  | 160  | 476TXK160M     | 5.291                                  | 350                                                               | 12.5x20          |
| 47                  | 200  | 476TXK200M     | 5.291                                  | 175                                                               | 12.5x20          |
| 47                  | 250  | 476TXK250M     | 5.291                                  | 385                                                               | 12.5x25          |
| 47                  | 350  | 476TXK350M     | 7.0547                                 | 440                                                               | 16x25            |

| Capacitance<br>(μF) | WVDC | IC PART NUMBER | Maximum<br>ESR (Ω)<br>120 Hz,<br>+20°C | Maximum<br>RMS<br>Ripple<br>Current<br>(mA)<br>120 kHz,<br>+105°C | Dims DxL<br>(mm) |
|---------------------|------|----------------|----------------------------------------|-------------------------------------------------------------------|------------------|
| 47                  | 400  | 476TXK400M     | 7.0547                                 | 442                                                               | 16x25            |
| 47                  | 450  | 476TXK450MKAG  | 7.0547                                 | 440                                                               | 16x30            |
| 68                  | 160  | 686TXK160M     | 3.657                                  | 475                                                               | 12.5x25          |
| 68                  | 200  | 686TXK200MKJG  | 3.657                                  | 490                                                               | 16x20            |
| 68                  | 200  | 686TXK200M     | 3.657                                  | 475                                                               | 12.5x25          |
| 68                  | 250  | 686TXK250M     | 3.657                                  | 540                                                               | 16x25            |
| 68                  | 350  | 686TXK350M     | 4.8761                                 | 580                                                               | 16x31.5          |
| 68                  | 400  | 686TXK400MKAD  | 4.8761                                 | 620                                                               | 16x35            |
| 68                  | 450  | 686TXK450MKCG  | 4.8761                                 | 610                                                               | 16x40            |
| 82                  | 350  | 826TXK350MKAD  | 4.0436                                 | 680                                                               | 16x35            |
| 82                  | 400  | 826TXK400MKCG  | 4.0436                                 | 690                                                               | 16x40            |
| 82                  | 450  | 826TXK450MLAD  | 4.0436                                 | 670                                                               | 18x35            |
| 100                 | 160  | 107TXK160M     | 2.487                                  | 645                                                               | 16x25            |
| 100                 | 200  | 107TXK200M     | 2.487                                  | 650                                                               | 16x25            |
| 100                 | 250  | 107TXK250M     | 2.487                                  | 710                                                               | 16x31.5          |
| 100                 | 350  | 107TXK350M     | 3.3157                                 | 780                                                               | 18x35.5          |
| 100                 | 400  | 107TXK400M     | 3.3157                                 | 780                                                               | 18x35.5          |
| 100                 | 450  | 107TXK450MLCG  | 3.3157                                 | 780                                                               | 18x40            |
| 120                 | 350  | 127TXK350MLAD  | 2.7631                                 | 850                                                               | 18x35            |
| 120                 | 400  | 127TXK400MLCG  | 2.7631                                 | 900                                                               | 18x40            |
| 120                 | 450  | 127TXK450MLCD  | 2.7631                                 | 900                                                               | 18x45            |
| 150                 | 160  | 157TXK160M     | 1.658                                  | 840                                                               | 16x31.5          |
| 150                 | 200  | 157TXK200M     | 1.658                                  | 850                                                               | 16x31.5          |
| 150                 | 250  | 157TXK250MKAD  | 1.658                                  | 900                                                               | 16x35            |
| 150                 | 350  | 157TXK350MLCG  | 2.2105                                 | 1000                                                              | 18x40            |
| 150                 | 400  | 157TXK400MLCD  | 2.2105                                 | 1050                                                              | 18x45            |
| 150                 | 450  | 157TXK450MLCG  | 2.2105                                 | 1050                                                              | 18x40            |
| 150                 | 450  | 157TXK450MNCG  | 2.2105                                 | 1050                                                              | 22x40            |
| 220                 | 160  | 227TXK160MKAD  | 1.1304                                 | 1000                                                              | 16x35            |
| 220                 | 200  | 227TXK200M     | 1.1304                                 | 1050                                                              | 18x35.5          |
| 220                 | 250  | 227TXK250M     | 1.1304                                 | 1120                                                              | 18x40            |