

# Type 3186 High Capacitance, Aluminum Electrolytic Screw Terminal

Type 3186, 85 °C Best-Value, High-Capacitance, Aluminum.

Choice of Potted or Rilled High-Vibration Construction



## Best Value Screw Terminal Type

Type 3186 is available with the capacitor element potted in place for lowest-cost or secured by rills, spoon shaped dimples in the side of the can. Rilled construction offers the industry's highest vibration and shock withstanding and excellent heat transfer into the sides and bottom of the can. Besides increasing ripple current handling, the rilled construction extends the great value of Type 3186 into military and transportation settings that require rugged mechanical capability.

## Highlights

- Rilled cans withstand high shock and vibration.
- Potted cans are the lowest cost screw-terminal type.
- High ripple current capability
- High capacitance per can

## Specifications

**Operating Temperature:Rated** -40 °C to 85 °C

**Voltage:** 16 to 500 Vdc

**Capacitance:** 220 µF to 1.0 F

**Capacitance Tolerance:** -10% +75% up to 100 Vdc, -10 + 50% 200 Vdc & up

**DC Leakage Current:**  $\leq 6\sqrt{CV}$  µA (6 mA max.) at 5 minutes

**Cold Impedence:** -20 °C multiple of 25 °C  $Z \leq 8$  for 16–50V, 4 for 63–100V, 3 for 150V and up.

**Ripple Current Multipliers:** Ambient Temperature

| 45 °C | 55 °C | 65 °C | 75 °C | 85 °C |
|-------|-------|-------|-------|-------|
| 2.24  | 2.00  | 1.73  | 1.41  | 1.00  |

Frequency

|                  | 60 Hz | 120 Hz | 300 Hz | 1000 Hz | ≥10 kHz |
|------------------|-------|--------|--------|---------|---------|
| <b>16–100 V</b>  | 0.90  | 1.00   | 1.15   | 1.25    | 1.30    |
| <b>200–500 V</b> | 0.90  | 1.00   | 1.25   | 1.40    | 1.50    |

**Series Inductance:**

| case dia (in) | ESL (nH) | case dia (in) | ESL (nH) |
|---------------|----------|---------------|----------|
| 1.375         | 18       | 2.5           | 27       |
| 1.75          | 23       | 3             | 29       |
| 2             | 25       |               |          |

**Life Endurance Test:** 2,000 h at 85 °C and rated voltage

ΔCapacitance ±10%

ESR 200% of limit

DCL 100% of limit

**Shelf Life:** 500 h @ 85 °C and no voltage

ΔCapacitance ±10%

ESR 175% of limit

DCL 200% of limit

**Vibration:** Potted: 10 to 55 Hz, 0.06" and 10g max, 1.5 h ea. of 2 axis  
Rilled: 10 to 55 Hz, 0.06" and 15g max, 1.5 h ea. of 2 axis



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

# Type 3186 High Capacitance, Aluminum Electrolytic Screw Terminal

## Case Dimensions, Uninsulated Bare Can

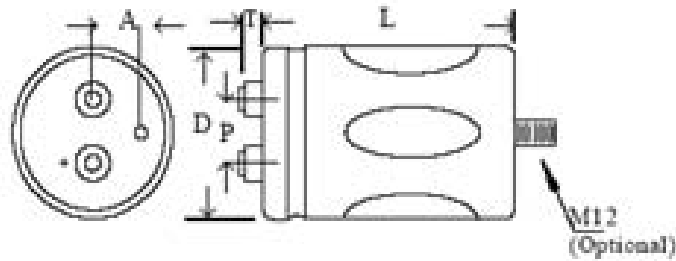
| Case Code | Diam. (D)   |           | Length (L)  |           | Terminal Space(P) |           | Vent Plug (A) |      | Typical Weight |      | Optional Bracket Part No. |
|-----------|-------------|-----------|-------------|-----------|-------------------|-----------|---------------|------|----------------|------|---------------------------|
|           | ±0.031 (in) | ±0.8 (mm) | ±0.062 (in) | ±1.6 (mm) | ±0.014 (in)       | ±0.4 (mm) | (in)          | (mm) | (oz)           | (g)  |                           |
| BA        | 1.375       | 34.9      | 2.125       | 54.0      | 0.5               | 12.7      | 0.39          | 8.0  | 2.5            | 72   | 115058-06                 |
| BB        | 1.375       | 34.9      | 2.625       | 66.7      | 0.5               | 12.7      | 0.39          | 8.0  | 3.2            | 90   | 115058-06                 |
| BC        | 1.375       | 34.9      | 3.125       | 79.4      | 0.5               | 12.7      | 0.39          | 8.0  | 3.7            | 105  | 115058-06                 |
| BD        | 1.375       | 34.9      | 3.625       | 92.1      | 0.5               | 12.7      | 0.39          | 8.0  | 4.2            | 120  | 115058-06                 |
| BE        | 1.375       | 34.9      | 4.125       | 104.8     | 0.5               | 12.7      | 0.39          | 8.0  | 4.7            | 135  | 115058-06                 |
| BF        | 1.375       | 34.9      | 4.625       | 117.5     | 0.5               | 12.7      | 0.39          | 8.0  | 6.0            | 170  | 115058-06                 |
| BG        | 1.375       | 34.9      | 5.125       | 130.2     | 0.5               | 12.7      | 0.39          | 8.0  | 7.7            | 220  | 115058-06                 |
| BH        | 1.375       | 34.9      | 5.625       | 142.9     | 0.5               | 12.7      | 0.39          | 8.0  | 9.5            | 270  | 115058-06                 |
| DA        | 1.750       | 44.5      | 2.125       | 54.0      | 0.75              | 19.1      | 0.453         | 11.5 | 5.6            | 160  | 115058-15                 |
| DB        | 1.750       | 44.5      | 2.625       | 66.7      | 0.75              | 19.1      | 0.453         | 11.5 | 6.1            | 175  | 115058-15                 |
| DC        | 1.750       | 44.5      | 3.125       | 79.4      | 0.75              | 19.1      | 0.453         | 11.5 | 6.3            | 180  | 115058-15                 |
| DD        | 1.750       | 44.5      | 3.625       | 92.1      | 0.75              | 19.1      | 0.453         | 11.5 | 7.2            | 205  | 115058-15                 |
| DE        | 1.750       | 44.5      | 4.125       | 104.8     | 0.75              | 19.1      | 0.453         | 11.5 | 7.7            | 220  | 115058-15                 |
| DF        | 1.750       | 44.5      | 4.625       | 117.5     | 0.75              | 19.1      | 0.453         | 11.5 | 8.2            | 235  | 115058-15                 |
| DG        | 1.750       | 44.5      | 5.125       | 130.2     | 0.75              | 19.1      | 0.453         | 11.5 | 8.8            | 250  | 115058-15                 |
| DH        | 1.750       | 44.5      | 5.625       | 142.9     | 0.75              | 19.1      | 0.453         | 11.5 | 9.5            | 270  | 115058-15                 |
| EA        | 2.000       | 50.8      | 2.125       | 54.0      | 0.875             | 22.2      | 0.5           | 12.7 | 6.0            | 170  | 115058-09                 |
| EB        | 2.000       | 50.8      | 2.625       | 66.7      | 0.875             | 22.2      | 0.5           | 12.7 | 6.3            | 180  | 115058-09                 |
| EC        | 2.000       | 50.8      | 3.125       | 79.4      | 0.875             | 22.2      | 0.5           | 12.7 | 6.7            | 190  | 115058-09                 |
| ED        | 2.000       | 50.8      | 3.625       | 92.1      | 0.875             | 22.2      | 0.5           | 12.7 | 7.7            | 220  | 115058-09                 |
| EE        | 2.000       | 50.8      | 4.125       | 104.8     | 0.875             | 22.2      | 0.5           | 12.7 | 8.9            | 255  | 115058-09                 |
| EF        | 2.000       | 50.8      | 4.625       | 117.5     | 0.875             | 22.2      | 0.5           | 12.7 | 10.2           | 290  | 115058-09                 |
| EG        | 2.000       | 50.8      | 5.125       | 130.2     | 0.875             | 22.2      | 0.5           | 12.7 | 11.2           | 320  | 115058-09                 |
| EH        | 2.000       | 50.8      | 5.625       | 142.9     | 0.875             | 22.2      | 0.5           | 12.7 | 12.3           | 350  | 115058-09                 |
| FB        | 2.500       | 63.5      | 2.625       | 66.7      | 1.125             | 28.6      | 0.625         | 15.9 | 10.5           | 300  | 115058-14                 |
| FC        | 2.500       | 63.5      | 3.125       | 79.4      | 1.125             | 28.6      | 0.625         | 15.9 | 13.0           | 370  | 115058-14                 |
| FD        | 2.500       | 63.5      | 3.625       | 92.1      | 1.125             | 28.6      | 0.625         | 15.9 | 14.0           | 400  | 115058-14                 |
| FE        | 2.500       | 63.5      | 4.125       | 104.8     | 1.125             | 28.6      | 0.625         | 15.9 | 15.6           | 445  | 115058-14                 |
| FF        | 2.500       | 63.5      | 4.625       | 117.5     | 1.125             | 28.6      | 0.625         | 15.9 | 21.0           | 600  | 115058-14                 |
| FG        | 2.500       | 63.5      | 5.125       | 130.2     | 1.125             | 28.6      | 0.625         | 15.9 | 22.8           | 650  | 115058-14                 |
| FH        | 2.500       | 63.5      | 5.625       | 142.9     | 1.125             | 28.6      | 0.625         | 15.9 | 21.0           | 600  | 115058-14                 |
| GC        | 3.000       | 76.2      | 3.125       | 79.4      | 1.25              | 31.8      | 0.75          | 19.0 | 18.2           | 520  | 115058-11                 |
| GD        | 3.000       | 76.2      | 3.625       | 92.1      | 1.25              | 31.8      | 0.75          | 19.0 | 20.0           | 570  | 115058-11                 |
| GE        | 3.000       | 76.2      | 4.125       | 104.8     | 1.25              | 31.8      | 0.75          | 19.0 | 21.0           | 600  | 115058-11                 |
| GF        | 3.000       | 76.2      | 4.625       | 117.5     | 1.25              | 31.8      | 0.75          | 19.0 | 25.2           | 720  | 115058-11                 |
| GG        | 3.000       | 76.2      | 5.125       | 130.2     | 1.25              | 31.8      | 0.75          | 19.0 | 29.8           | 850  | 115058-11                 |
| GH        | 3.000       | 76.2      | 5.625       | 142.9     | 1.25              | 31.8      | 0.75          | 19.0 | 34.0           | 970  | 115058-11                 |
| GJ        | 3.000       | 76.2      | 5.825       | 148.0     | 1.25              | 31.8      | 0.75          | 19.0 | 36.8           | 1050 | 115058-11                 |
| GN        | 3.000       | 76.2      | 8.625       | 219.1     | 1.25              | 31.8      | 0.75          | 19.0 | 51.1           | 1460 | 115058-11                 |

## Can Dimensions Insulation Adders

|                   | Diameter (D) |      | Length (L) |      | Standing Height (H) |      |
|-------------------|--------------|------|------------|------|---------------------|------|
|                   | (in)         | (mm) | (in)       | (mm) | (in)                | (mm) |
| <b>0.008" PVC</b> | 0.02         | 0.51 | 0.032      | 0.81 | 0.024               | 0.61 |
| <b>0.012" PVC</b> | 0.03         | 0.63 | 0.062      | 1.58 | 0.045               | 1.14 |

# Type 3186 High Capacitance, Aluminum Electrolytic Screw Terminal

## Outline Drawing



## Terminal Dimensions

| Terminal Style     | For Case Diameters | Code | Post Diameter |      | H max |     | Thread | min Full Thread |      | Torque |      |
|--------------------|--------------------|------|---------------|------|-------|-----|--------|-----------------|------|--------|------|
|                    |                    |      | in            | mm   | in    | mm  |        | in              | mm   | in·lb  | N·m  |
| Low Post           | 1½ to 3            | B    | 0.314         | 8.0  | 0.094 | 2.4 | 10-32  | 0.218           | 5.5  | 25     | 2.82 |
| High Post          | 1½ to 3            | A    | 0.314         | 8.0  | 0.281 | 7.1 | 10-32  | 0.375           | 9.5  | 25     | 2.82 |
| High Current, Low  | 2½ & 3             | D    | 0.684         | 17.4 | 0.125 | 3.2 | ¼-28   | 0.344           | 8.7  | 60     | 6.78 |
| High Current, High | 2½ & 3             | K    | 0.684         | 17.4 | 0.281 | 7.1 | ¼-28   | 0.469           | 11.9 | 60     | 6.78 |
| M5 Post, Small     | 1½ to 2            | M    | 0.314         | 8.0  | 0.281 | 7.1 | M5     | 0.375           | 9.5  | 25     | 2.82 |
| M6 Low Post        | 3                  | J    | 0.684         | 17.4 | 0.125 | 3.2 | M6     | 0.344           | 8.7  | 60     | 6.78 |

[Click here to see Hardware & Mounting Options](#)

## Part Numbering System

|             |                  |                    |                  |                |                          |                              |                      |
|-------------|------------------|--------------------|------------------|----------------|--------------------------|------------------------------|----------------------|
| <b>3186</b> | <b>GH</b>        | <b>562</b>         | <b>T</b>         | <b>400</b>     | <b>M</b>                 | <b>P</b>                     | <b>A1</b>            |
| <b>Type</b> | <b>Case Code</b> | <b>Capacitance</b> | <b>Tolerance</b> | <b>Voltage</b> | <b>Terminal</b>          | <b>Insulation</b>            | <b>Construction*</b> |
|             |                  | 562=5600 µF        | M= ±20%          | 016=16 Vdc     | A=high post              | P=0.008" PVC                 | A1=potted            |
|             |                  | 223=22000 µF       | S= -10 +30%      | 450=450 Vdc    | B=low post               | H=0.012" PVC                 | R1=rilled            |
|             |                  | 821=820 µF         | T= -10 +50%      |                | D=high current low post  | <u>N=none</u>                | S1=stud & potted**   |
|             |                  |                    | U= -10 +75%      |                | K=high current high post | With mounting clamp/bracket: | T1=stud & rilled**   |
|             |                  |                    |                  |                | M=M5 high post           | R=0.008" PVC                 |                      |
|             |                  |                    |                  |                | J=M6 low post            | X=none                       |                      |

\* Construction code is also a sequence number, e.g., A1, A2,---,A9, B1,B2,---, for customer specifications. Sequence number 1 in A1, R1, S1 and T1 denotes the standard catalog capacitor with no special requirements.

\*\*Mounting stud not available for 1.375" diameter cases.

# Type 3186 High Capacitance, Aluminum Electrolytic Screw Terminal

## Ratings

| Cap.<br>( $\mu$ F)               | Catalog<br>Part Number | ESR max<br>120 Hz, 25°C<br>(m $\Omega$ ) | Ripple max<br>120 Hz, 85 °C<br>potted(A) rilled(A) | Case Size<br>DxL<br>(in) |
|----------------------------------|------------------------|--|--|--------------------------|
| <b>16 Volts (20 Volts Surge)</b> |                        |  |  |                          |
| 22000                            | 3186BA223T016APA1      | 25.0                                     | 4.7 5.4  | 1.375 X 2.125            |
| 39000                            | 3186BC393T016APA1      | 18.0                                     | 6.8 7.6  | 1.375 X 3.125            |
| 56000                            | 3186BE563T016APA1      | 14.0                                     | 8.8 9.7  | 1.375 X 4.125            |
| 82000                            | 3186EC823T016APA1      | 6.0                                      | 15.6 17.0  | 2.00 X 3.125             |
| 120000                           | 3186EE124T016APA1      | 5.0                                      | 18.6 21.0  | 2.00 X 4.125             |
| 150000                           | 3186EF154T016APA1      | 4.0                                      | 20.7 23.0  | 2.00 X 4.625             |
| 150000                           | 3186EH154T016APA1      | 4.0                                      | 22.8 25.0  | 2.00 X 5.625             |
| 220000                           | 3186FE224T016APA1      | 4.0                                      | 23.8 27.0  | 2.50 X 4.125             |
| 270000                           | 3186FF274T016APA1      | 4.0                                      | 25.7 29.0  | 2.50 X 4.625             |
| 330000                           | 3186FH334T016DPA1      | 3.0                                      | 30.6 34.0  | 2.50 X 5.625             |
| 330000                           | 3186GE334T016DPA1      | 4.0                                      | 28.1 32.0  | 3.00 X 4.125             |
| 390000                           | 3186GF394T016DPA1      | 3.0                                      | 30.9 35.0  | 3.00 X 4.625             |
| 470000                           | 3186GH474T016DPA1      | 3.0                                      | 35.6 40.0  | 3.00 X 5.625             |
| 820000                           | 3186GN824T016DPA1      | 3.0                                      | 46.4 50.0  | 3.00 X 8.625             |
| 1000000                          | 3186GN105T016DPA1      | 3.0                                      | 46.4 50.0  | 3.00 X 8.625             |
| <b>25 Volts (30 Volts Surge)</b> |                        |  |  |                          |
| 18000                            | 3186BA183T025APA1      | 25.0                                     | 4.7 5.4  | 1.375 X 2.125            |
| 27000                            | 3186BC273T025APA1      | 18.0                                     | 6.7 7.5  | 1.375 X 3.125            |
| 39000                            | 3186BE393T025APA1      | 14.0                                     | 8.1 9.0  | 1.375 X 4.125            |
| 68000                            | 3186EC683T025APA1      | 6.0                                      | 15.6 17.0  | 2.00 X 3.125             |
| 100000                           | 3186EE104T025APA1      | 5.0                                      | 18.6 21.0  | 2.00 X 4.125             |
| 120000                           | 3186EF124T025APA1      | 4.0                                      | 20.7 23.0  | 2.00 X 4.625             |
| 150000                           | 3186EH154T025APA1      | 4.0                                      | 23.7 26.0  | 2.00 X 5.625             |
| 150000                           | 3186FE154T025APA1      | 4.0                                      | 23.8 27.0  | 2.50 X 4.125             |
| 180000                           | 3186FF184T025APA1      | 4.0                                      | 25.7 29.0  | 2.50 X 4.625             |
| 220000                           | 3186FH224T025DPA1      | 3.0                                      | 27.9 31.0  | 2.50 X 5.625             |
| 220000                           | 3186GE224T025DPA1      | 4.0                                      | 28.1 32.0  | 3.00 X 4.125             |
| 270000                           | 3186GF274T025DPA1      | 3.0                                      | 30.9 35.0  | 3.00 X 4.625             |
| 330000                           | 3186GH334T025DPA1      | 3.0                                      | 33.8 38.0  | 3.00 X 5.625             |
| 560000                           | 3186GN564T025DPA1      | 3.0                                      | 46.4 50.0  | 3.00 X 8.625             |
| <b>40 Volts (50 Volts Surge)</b> |                        |  |  |                          |
| 10000                            | 3186BA103T040APA1      | 33.0                                     | 4.2 4.8  | 1.375 X 2.125            |
| 15000                            | 3186BC153T040APA1      | 19.0                                     | 6.6 7.4  | 1.375 X 3.125            |
| 22000                            | 3186BE223T040APA1      | 14.0                                     | 8.5 9.4  | 1.375 X 4.125            |
| 39000                            | 3186EC393T040APA1      | 7.0                                      | 13.7 15.0  | 2.00 X 3.125             |
| 56000                            | 3186EE563T040APA1      | 6.0                                      | 16.8 19.0  | 2.00 X 4.125             |
| 68000                            | 3186EF683T040APA1      | 5.0                                      | 18.9 21.0  | 2.00 X 4.625             |
| 82000                            | 3186EH823T040APA1      | 5.0                                      | 21.0 23.0  | 2.00 X 5.625             |
| 100000                           | 3186FE104T040APA1      | 5.0                                      | 21.2 24.0  | 2.50 X 4.125             |
| 120000                           | 3186FF124T040APA1      | 4.0                                      | 23.9 27.0  | 2.50 X 4.625             |
| 150000                           | 3186FH154T040DPA1      | 4.0                                      | 27.9 31.0  | 2.50 X 5.625             |
| 150000                           | 3186GE154T040APA1      | 4.0                                      | 25.5 29.0  | 3.00 X 4.125             |
| 180000                           | 3186GF184T040DPA1      | 4.0                                      | 30.9 35.0  | 3.00 X 4.625             |
| 220000                           | 3186GH224T040DPA1      | 3.0                                      | 32.9 37.0  | 3.00 X 5.625             |
| 330000                           | 3186GN334T040DPA1      | 3.0                                      | 46.4 50.0  | 3.00 X 8.625             |

| Cap.<br>( $\mu$ F)               | Catalog<br>Part Number | ESR max<br>120 Hz, 25°C<br>(m $\Omega$ ) | Ripple max<br>120 Hz, 85 °C<br>potted(A) rilled(A) | Case Size<br>DxL<br>(in) |
|----------------------------------|------------------------|--|--|--------------------------|
| <b>50 Volts (63 Volts Surge)</b> |                        |  |  |                          |
| 8200                             | 3186BA822T050APA1      | 41.0                                     | 3.7 4.2  | 1.375 X 2.125            |
| 12000                            | 3186BC123T050APA1      | 28.0                                     | 5.4 6.0  | 1.375 X 3.125            |
| 18000                            | 3186BE183T050APA1      | 21.0                                     | 7.1 7.8  | 1.375 X 4.125            |
| 27000                            | 3186EC273T050APA1      | 15.0                                     | 9.2 10.0   | 2.00 X 3.125             |
| 47000                            | 3186EE473T050APA1      | 11.0                                     | 11.5 13.0  | 2.00 X 4.125             |
| 56000                            | 3186EF563T050APA1      | 10.0                                     | 13.5 15.0  | 2.00 X 4.625             |
| 68000                            | 3186EH683T050APA1      | 9.0                                      | 15.5 17.0  | 2.00 X 5.625             |
| 68000                            | 3186FE683T050APA1      | 8.0                                      | 15.9 18.0  | 2.50 X 4.125             |
| 82000                            | 3186FF823T050APA1      | 7.0                                      | 17.7 20.0  | 2.50 X 4.625             |
| 100000                           | 3186FH104T050APA1      | 6.0                                      | 21.6 24.0  | 2.50 X 5.625             |
| 100000                           | 3186GE104T050APA1      | 6.0                                      | 20.2 23.0  | 3.00 X 4.125             |
| 120000                           | 3186GF124T050APA1      | 6.0                                      | 22.1 25.0  | 3.00 X 4.625             |
| 150000                           | 3186GH154T050DPA1      | 5.0                                      | 26.7 30.0  | 3.00 X 5.625             |
| 220000                           | 3186GN224T050DPA1      | 4.0                                      | 37.1 40.0  | 3.00 X 8.625             |
| <b>63 Volts (75 Volts Surge)</b> |                        |  |  |                          |
| 4700                             | 3186BA472T063APA1      | 42.0                                     | 3.7 4.2  | 1.375 X 2.125            |
| 8200                             | 3186BC822T063APA1      | 28.0                                     | 5.4 6.0  | 1.375 X 3.125            |
| 12000                            | 3186BE123T063APA1      | 21.0                                     | 7.2 8.0  | 1.375 X 4.125            |
| 18000                            | 3186EC183T063APA1      | 15.0                                     | 9.2 10.0   | 2.00 X 3.125             |
| 27000                            | 3186EE273T063APA1      | 11.0                                     | 11.5 13.0  | 2.00 X 4.125             |
| 33000                            | 3186EF333T063APA1      | 10.0                                     | 13.5 15.0  | 2.00 X 4.625             |
| 39000                            | 3186EH393T063APA1      | 9.0                                      | 14.6 16.0  | 2.00 X 5.625             |
| 47000                            | 3186FE473T063APA1      | 8.0                                      | 15.9 18.0  | 2.50 X 4.125             |
| 56000                            | 3186FF563T063APA1      | 7.0                                      | 17.7 20.0  | 2.50 X 4.625             |
| 68000                            | 3186FH683T063APA1      | 6.0                                      | 21.6 24.0  | 2.50 X 5.625             |
| 68000                            | 3186GE683T063APA1      | 6.0                                      | 20.2 23.0  | 3.00 X 4.125             |
| 82000                            | 3186GF823T063APA1      | 6.0                                      | 22.1 25.0  | 3.00 X 4.625             |
| 100000                           | 3186GH104T063DPA1      | 5.0                                      | 26.7 30.0  | 3.00 X 5.625             |
| 150000                           | 3186GN154T063DPA1      | 4.0                                      | 37.1 40.0  | 3.00 X 8.625             |
| <b>75 Volts (95 Volts Surge)</b> |                        |  |  |                          |
| 3900                             | 3186BA392T075APA1      | 43.0                                     | 3.6 4.1  | 1.375 X 2.125            |
| 6800                             | 3186BC682T075APA1      | 29.0                                     | 5.3 5.9  | 1.375 X 3.125            |
| 10000                            | 3186BE103T075APA1      | 21.0                                     | 7.1 7.8  | 1.375 X 4.125            |
| 15000                            | 3186EC153T075APA1      | 15.0                                     | 9.2 10.0   | 2.00 X 3.125             |
| 22000                            | 3186EE223T075APA1      | 11.0                                     | 11.5 13.0  | 2.00 X 4.125             |
| 27000                            | 3186EF273T075APA1      | 10.0                                     | 13.5 15.0  | 2.00 X 4.625             |
| 33000                            | 3186EH333T075APA1      | 9.0                                      | 15.5 17.0  | 2.00 X 5.625             |
| 33000                            | 3186FE333T075APA1      | 8.0                                      | 15.9 18.0  | 2.50 X 4.125             |
| 39000                            | 3186FF393T075APA1      | 7.0                                      | 17.7 20.0  | 2.50 X 4.625             |
| 56000                            | 3186FH563T075APA1      | 6.0                                      | 20.7 23.0  | 2.50 X 5.625             |
| 47000                            | 3186GE473T075APA1      | 7.0                                      | 20.2 23.0  | 3.00 X 4.125             |
| 56000                            | 3186GF563T075APA1      | 6.0                                      | 22.1 25.0  | 3.00 X 4.625             |
| 82000                            | 3186GH823T075APA1      | 5.0                                      | 25.8 29.0  | 3.00 X 5.625             |
| 120000                           | 3186GN124T075DPA1      | 4.0                                      | 37.1 40.0  | 3.00 X 8.625             |

# Type 3186 High Capacitance, Aluminum Electrolytic Screw Terminal

| Cap. (µF)                          | Catalog Part Number | ESR max 120 Hz, 25°C (mΩ) | Ripple max 120 Hz, 85 °C potted(A) rilled(A) | Case Size DxL (in) |
|------------------------------------|---------------------|---------------------------|--|--------------------|
| <b>100 Volts (125 Volts Surge)</b> |                     |                           |  |                    |
| 2700                               | 3186BA272T100APA1   | 65.0                      | 2.9 3.3                                      | 1.375 X 2.125      |
| 3900                               | 3186BC392T100APA1   | 50.0                      | 3.8 4.3                                      | 1.375 X 3.125      |
| 5600                               | 3186BE562T100APA1   | 32.0                      | 5.3 5.9                                      | 1.375 X 4.125      |
| 10000                              | 3186EC103T100APA1   | 52.0                      | 5.0 5.5                                      | 2.00 X 3.125       |
| 15000                              | 3186EE153T100APA1   | 37.0                      | 6.5 7.3                                      | 2.00 X 4.125       |
| 18000                              | 3186EF183T100APA1   | 27.0                      | 8.1 9.0                                      | 2.00 X 4.625       |
| 22000                              | 3186EH223T100APA1   | 11.0                      | 13.7 15.0                                    | 2.00 X 5.625       |
| 22000                              | 3186FE223T100APA1   | 19.0                      | 9.7 11.0                                     | 2.50 X 4.125       |
| 27000                              | 3186FF273T100APA1   | 16.0                      | 11.5 13.0                                    | 2.50 X 4.625       |
| 33000                              | 3186FH333T100APA1   | 14.0                      | 12.6 14.0                                    | 2.50 X 5.625       |
| 33000                              | 3186GE333T100APA1   | 14.0                      | 12.3 14.0                                    | 3.00 X 4.125       |
| 39000                              | 3186GF393T100APA1   | 11.0                      | 15.0 17.0                                    | 3.00 X 4.625       |
| 56000                              | 3186GH563T100DPA1   | 8.0                       | 19.6 22.0                                    | 3.00 X 5.625       |
| 82000                              | 3186GN823T100DPA1   | 7.0                       | 23.2 25.0                                    | 3.00 X 8.625       |
| <b>200 Volts (250 Volts Surge)</b> |                     |                           |  |                    |
| 1000                               | 3186BA102T200APA1   | 109.0                     | 2.3 2.6                                      | 1.375 X 2.125      |
| 1500                               | 3186BC152T200APA1   | 77.0                      | 3.0 3.4                                      | 1.375 X 3.125      |
| 2200                               | 3186BE222T200APA1   | 52.0                      | 4.2 4.6                                      | 1.375 X 4.125      |
| 3900                               | 3186EC392T200APA1   | 73.0                      | 4.4 4.8                                      | 2.00 X 3.125       |
| 5600                               | 3186EE562T200APA1   | 24.0                      | 7.6 8.6                                      | 2.00 X 4.125       |
| 6800                               | 3186EF682T200APA1   | 21.0                      | 8.9 9.9                                      | 2.00 X 4.625       |
| 8200                               | 3186EH822T200APA1   | 17.0                      | 11.0 12.0                                    | 2.00 X 5.625       |
| 10000                              | 3186FE103T200APA1   | 22.0                      | 9.7 11.0                                     | 2.50 X 4.125       |
| 12000                              | 3186FF123T200APA1   | 17.0                      | 10.6 12.0                                    | 2.50 X 4.625       |
| 15000                              | 3186FH153T200APA1   | 16.0                      | 12.6 14.0                                    | 2.50 X 5.625       |
| 12000                              | 3186GE123T200APA1   | 26.0                      | 9.7 11.0                                     | 3.00 X 4.125       |
| 15000                              | 3186GF153T200APA1   | 23.0                      | 10.6 12.0                                    | 3.00 X 4.625       |
| 22000                              | 3186GH223T200APA1   | 17.0                      | 13.4 15.0                                    | 3.00 X 5.625       |
| 33000                              | 3186GN333T200APA1   | 15.0                      | 15.8 17.0                                    | 3.00 X 8.625       |
| <b>250 Volts (300 Volts Surge)</b> |                     |                           |  |                    |
| 680                                | 3186BA681T250APA1   | 120.0                     | 2.3 2.6                                      | 1.375 X 2.125      |
| 1200                               | 3186BC122T250APA1   | 76.0                      | 2.3 2.6                                      | 1.375 X 3.125      |
| 1800                               | 3186BE182T250APA1   | 53.0                      | 4.4 4.9                                      | 1.375 X 4.125      |
| 2700                               | 3186EC272T250APA1   | 67.0                      | 4.0 4.4                                      | 2.00 X 3.125       |
| 3900                               | 3186EE392T250APA1   | 27.0                      | 7.0 7.9                                      | 2.00 X 4.125       |
| 4700                               | 3186EF472T250APA1   | 23.0                      | 8.1 9.0                                      | 2.00 X 4.625       |
| 5600                               | 3186EH562T250APA1   | 20.0                      | 9.1 10.0                                     | 2.00 X 5.625       |
| 6800                               | 3186FE682T250APA1   | 24.0                      | 8.8 10.0                                     | 2.50 X 4.125       |
| 8200                               | 3186FF822T250APA1   | 19.0                      | 9.7 11.0                                     | 2.50 X 4.625       |
| 10000                              | 3186FH103T250APA1   | 17.0                      | 12.6 14.0                                    | 2.50 X 5.625       |
| 10000                              | 3186GE103T250APA1   | 25.0                      | 9.7 11.0                                     | 3.00 X 4.125       |
| 12000                              | 3186GF123T250APA1   | 22.0                      | 10.6 12.0                                    | 3.00 X 4.625       |
| 15000                              | 3186GH153T250APA1   | 19.0                      | 12.5 14.0                                    | 3.00 X 5.625       |
| 22000                              | 3186GN223T250APA1   | 16.0                      | 15.8 17.0                                    | 3.00 X 8.625       |
| <b>350 Volts (400 Volts Surge)</b> |                     |                           |  |                    |
| 390                                | 3186BA391T350APA1   | 270.0                     | 1.1 1.3                                      | 1.375 X 2.125      |
| 680                                | 3186BC681T350APA1   | 163.0                     | 2.2 2.5                                      | 1.375 X 3.125      |

| Cap. (µF)                          | Catalog Part Number | ESR max 120 Hz, 25°C (mΩ) | Ripple max 120 Hz, 85 °C potted(A) rilled(A) | Case Size DxL (in) |
|------------------------------------|---------------------|---------------------------|--|--------------------|
| <b>350 Volts (400 Volts Surge)</b> |                     |                           |  |                    |
| 1000                               | 3186BE102T350APA1   | 112.0                     | 3.0 3.30                                     | 1.375 X 4.125      |
| 1500                               | 3186EC152T350APA1   | 105.0                     | 3.6 3.90                                     | 2.00 X 3.125       |
| 2200                               | 3186EE222T350APA1   | 55.0                      | 5.0 5.60                                     | 2.00 X 4.125       |
| 2700                               | 3186EF272T350APA1   | 44.0                      | 6.3 7.00                                     | 2.00 X 4.625       |
| 3300                               | 3186EH332T350APA1   | 37.0                      | 7.3 8.00                                     | 2.00 X 5.625       |
| 2700                               | 3186FE272T350APA1   | 54.0                      | 5.8 6.60                                     | 2.50 X 4.125       |
| 3900                               | 3186FF392T350APA1   | 37.0                      | 7.7 8.70                                     | 2.50 X 4.625       |
| 4700                               | 3186FH472T350APA1   | 33.0                      | 8.6 9.60                                     | 2.50 X 5.625       |
| 4700                               | 3186GE472T350APA1   | 33.0                      | 8.4 9.60                                     | 3.00 X 4.125       |
| 5600                               | 3186GF562T350APA1   | 33.0                      | 8.8 10.00                                    | 3.00 X 4.625       |
| 6800                               | 3186GH682T350APA1   | 28.0                      | 9.8 11.00                                    | 3.00 X 5.625       |
| 12000                              | 3186GN123T350APA1   | 18.0                      | 16.7 18.00                                   | 3.00 X 8.625       |
| <b>400 Volts (450 Volts Surge)</b> |                     |                           |  |                    |
| 330                                | 3186BA331T400APA1   | 290.0                     | 1.1 1.3                                      | 1.375 X 2.125      |
| 560                                | 3186BC561T400APA1   | 190.0                     | 1.9 2.1                                      | 1.375 X 3.125      |
| 820                                | 3186BE821T400APA1   | 129.0                     | 2.7 3.0                                      | 1.375 X 4.125      |
| 1200                               | 3186EC122T400APA1   | 95.0                      | 3.4 3.7                                      | 2.00 X 3.125       |
| 1800                               | 3186EE182T400APA1   | 59.0                      | 4.9 5.5                                      | 2.00 X 4.125       |
| 2200                               | 3186EF222T400APA1   | 50.0                      | 5.7 6.4                                      | 2.00 X 4.625       |
| 2700                               | 3186EH272T400APA1   | 39.0                      | 7.2 7.9                                      | 2.00 X 5.625       |
| 2700                               | 3186FE272T400APA1   | 48.0                      | 6.4 7.3                                      | 2.50 X 4.125       |
| 3300                               | 3186FF332T400APA1   | 39.0                      | 7.5 8.5                                      | 2.50 X 4.625       |
| 3900                               | 3186FH392T400APA1   | 37.0                      | 8.5 9.4                                      | 2.50 X 5.625       |
| 3900                               | 3186GE392T400APA1   | 37.0                      | 8.3 9.4                                      | 3.00 X 4.125       |
| 4700                               | 3186GF472T400APA1   | 34.0                      | 8.8 10.0                                     | 3.00 X 4.625       |
| 5600                               | 3186GH562T400APA1   | 28.0                      | 9.8 11.0                                     | 3.00 X 5.625       |
| 10000                              | 3186GN103T400APA1   | 18.0                      | 16.7 18.0                                    | 3.00 X 8.625       |
| <b>450 Volts (525 Volts Surge)</b> |                     |                           |  |                    |
| 220                                | 3186BA221T450APA1   | 430.0                     | 0.9 1.0                                      | 1.375 X 2.125      |
| 390                                | 3186BC391T450APA1   | 310.0                     | 1.6 1.8                                      | 1.375 X 3.125      |
| 560                                | 3186BE561T450APA1   | 180.0                     | 2.4 2.6                                      | 1.375 X 4.125      |
| 820                                | 3186EC821T450APA1   | 145.0                     | 2.7 3.0                                      | 2.00 X 3.125       |
| 1200                               | 3186EE122T450APA1   | 85.0                      | 4.1 4.6                                      | 2.00 X 4.125       |
| 1500                               | 3186EF152T450APA1   | 71.0                      | 4.8 5.3                                      | 2.00 X 4.625       |
| 1800                               | 3186EH182T450APA1   | 60.0                      | 5.4 5.9                                      | 2.00 X 5.625       |
| 2200                               | 3186FE222T450APA1   | 53.0                      | 5.9 6.7                                      | 2.50 X 4.125       |
| 2700                               | 3186FF272T450APA1   | 45.0                      | 6.8 7.7                                      | 2.50 X 4.625       |
| 3300                               | 3186FH332T450APA1   | 35.0                      | 8.6 9.5                                      | 2.50 X 5.625       |
| 3300                               | 3186GE332T450APA1   | 35.0                      | 8.3 9.5                                      | 3.00 X 4.125       |
| 3900                               | 3186GF392T450APA1   | 36.0                      | 8.7 9.8                                      | 3.00 X 4.625       |
| 4700                               | 3186GH472T450APA1   | 31.0                      | 9.8 11.0                                     | 3.00 X 5.625       |
| 8200                               | 3186GN822T450APA1   | 23.0                      | 13.0 14.0                                    | 3.00 X 8.625       |
| <b>500 Volts (550Volts Surge)</b>  |                     |                           |  |                    |
| 820                                | 3186EE821T500APA1   | 132.0                     | 3.0 3.4                                      | 2.00 X 4.125       |
| 1200                               | 3186EG122T500APA1   | 90.0                      | 4.1 4.6                                      | 2.00 X 5.125       |
| 2200                               | 3186FG222T500APA1   | 59.0                      | 5.9 6.6                                      | 2.50 X 5.125       |
| 3300                               | 3186GH332T500APA1   | 43.0                      | 7.7 8.6                                      | 3.00 X 5.625       |