

Type 3188 Aluminum Electrolytic Screw Terminals

Type 3188, 85 °C Long Life, High-Capacitance, Computer Grade, Aluminum Choice of Potted or Rilled High-Vibration Construction



Long-Life Grade of Best Value Screw Terminal Type

The Type 3188 has twice the life of the 3186 and twice the ripple current capability. Like the 3186, Type 3188 is available with the capacitor element potted in place for lower 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 opportunity for Type 3188 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
- 2 times the ripple current capability
- High capacitance per can

Specifications

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

Voltage: 16 to 450 Vdc

Capacitance: 270 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 |
|-------------|-------|--------|--------|---------|---------|
| 16 – 100 V | 0.90 | 1.00 | 1.15 | 1.25 | 1.30 |
| 200 – 500 V | 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: 4,000 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).

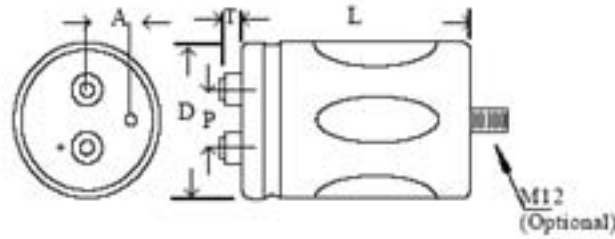
Type 3188 Aluminum Electrolytic Screw Terminals

Case Dimensions, Uninsulated Bare Can

| Case Code | Diameter (D) | | Length (L) | | Pitch (P) | | Plug (A) | | Typical | | Optional Bracket Part No. |
|-----------|-----------------|------------|-----------------|-------------|-----------------|-------------|------------|--------|-------------|------------|---------------------------|
| | ±0.031 (Inches) | ±0.79 (mm) | ±0.062 (Inches) | ±1.157 (mm) | ±0.014 (Inches) | ±0.356 (mm) | A (Inches) | A (mm) | Weight (oz) | Weight (g) | |
| BA | 1.375 | 34.9 | 2.125 | 54.0 | 0.500 | 12.7 | 0.390 | 9.9 | 2.53 | 72 | 115058-06 |
| BB | 1.375 | 34.9 | 2.625 | 66.7 | 0.500 | 12.7 | 0.390 | 9.9 | 3.17 | 90 | 115058-06 |
| BC | 1.375 | 34.9 | 3.125 | 79.4 | 0.500 | 12.7 | 0.390 | 9.9 | 3.70 | 105 | 115058-06 |
| BD | 1.375 | 34.9 | 3.625 | 92.1 | 0.500 | 12.7 | 0.390 | 9.9 | 4.22 | 120 | 115058-06 |
| BE | 1.375 | 34.9 | 4.125 | 104.8 | 0.500 | 12.7 | 0.390 | 9.9 | 4.75 | 135 | 115058-06 |
| BF | 1.375 | 34.9 | 4.625 | 117.5 | 0.500 | 12.7 | 0.390 | 9.9 | 5.98 | 170 | 115058-06 |
| BG | 1.375 | 34.9 | 5.125 | 130.2 | 0.500 | 12.7 | 0.390 | 9.9 | 7.74 | 220 | 115058-06 |
| BH | 1.375 | 34.9 | 5.625 | 142.9 | 0.500 | 12.7 | 0.390 | 9.9 | 9.50 | 270 | 115058-06 |
| DA | 1.75 | 44.5 | 2.125 | 54.0 | 0.750 | 19.1 | 0.453 | 11.5 | 5.63 | 160 | 115058-15 |
| DB | 1.75 | 44.5 | 2.625 | 66.7 | 0.750 | 19.1 | 0.453 | 11.5 | 6.16 | 175 | 115058-15 |
| DC | 1.75 | 44.5 | 3.125 | 79.4 | 0.750 | 19.1 | 0.453 | 11.5 | 6.34 | 180 | 115058-15 |
| DD | 1.75 | 44.5 | 3.625 | 92.1 | 0.750 | 19.1 | 0.453 | 11.5 | 7.22 | 205 | 115058-15 |
| DE | 1.75 | 44.5 | 4.125 | 104.8 | 0.750 | 19.1 | 0.453 | 11.5 | 7.74 | 220 | 115058-15 |
| DF | 1.75 | 44.5 | 4.625 | 117.5 | 0.750 | 19.1 | 0.453 | 11.5 | 8.27 | 235 | 115058-15 |
| DG | 1.75 | 44.5 | 5.125 | 130.2 | 0.750 | 19.1 | 0.453 | 11.5 | 8.80 | 250 | 115058-15 |
| DH | 1.75 | 44.5 | 5.625 | 142.9 | 0.750 | 19.1 | 0.453 | 11.5 | 9.50 | 270 | 115058-15 |
| EA | 2 | 50.8 | 2.125 | 54.0 | 0.875 | 22.2 | 0.500 | 12.7 | 5.98 | 170 | 115058-09 |
| EB | 2 | 50.8 | 2.625 | 66.7 | 0.875 | 22.2 | 0.500 | 12.7 | 6.34 | 180 | 115058-09 |
| EC | 2 | 50.8 | 3.125 | 79.4 | 0.875 | 22.2 | 0.500 | 12.7 | 6.69 | 190 | 115058-09 |
| ED | 2 | 50.8 | 3.625 | 92.1 | 0.875 | 22.2 | 0.500 | 12.7 | 7.74 | 220 | 115058-09 |
| EE | 2 | 50.8 | 4.125 | 104.8 | 0.875 | 22.2 | 0.500 | 12.7 | 8.98 | 255 | 115058-09 |
| EF | 2 | 50.8 | 4.625 | 117.5 | 0.875 | 22.2 | 0.500 | 12.7 | 10.21 | 290 | 115058-09 |
| EG | 2 | 50.8 | 5.125 | 130.2 | 0.875 | 22.2 | 0.500 | 12.7 | 11.26 | 320 | 115058-09 |
| EH | 2 | 50.8 | 5.625 | 142.9 | 0.875 | 22.2 | 0.500 | 12.7 | 8.80 | 250 | 115058-09 |
| FB | 2.5 | 63.5 | 2.625 | 66.7 | 1.125 | 28.6 | 0.625 | 15.9 | 10.56 | 300 | 115058-14 |
| FC | 2.5 | 63.5 | 3.125 | 79.4 | 1.125 | 28.6 | 0.625 | 15.9 | 13.02 | 370 | 115058-14 |
| FD | 2.5 | 63.5 | 3.625 | 92.1 | 1.125 | 28.6 | 0.625 | 15.9 | 14.08 | 400 | 115058-14 |
| FE | 2.5 | 63.5 | 4.125 | 104.8 | 1.125 | 28.6 | 0.625 | 15.9 | 15.66 | 445 | 115058-14 |
| FF | 2.5 | 63.5 | 4.625 | 117.5 | 1.125 | 28.6 | 0.625 | 15.9 | 21.12 | 600 | 115058-14 |
| FG | 2.5 | 63.5 | 5.125 | 130.2 | 1.125 | 28.6 | 0.625 | 15.9 | 22.88 | 650 | 115058-14 |
| FH | 2.5 | 63.5 | 5.625 | 142.9 | 1.125 | 28.6 | 0.625 | 15.9 | 21.12 | 600 | 115058-14 |
| GC | 3 | 76.2 | 3.125 | 79.4 | 1.250 | 31.8 | 0.750 | 19.1 | 18.30 | 520 | 115058-11 |
| GD | 3 | 76.2 | 3.625 | 92.1 | 1.250 | 31.8 | 0.750 | 19.1 | 20.06 | 570 | 115058-11 |
| GE | 3 | 76.2 | 4.125 | 104.8 | 1.250 | 31.8 | 0.750 | 19.1 | 21.12 | 600 | 115058-11 |
| GF | 3 | 76.2 | 4.625 | 117.5 | 1.250 | 31.8 | 0.750 | 19.1 | 25.34 | 720 | 115058-11 |
| GG | 3 | 76.2 | 5.125 | 130.2 | 1.250 | 31.8 | 0.750 | 19.1 | 29.92 | 850 | 115058-11 |
| GH | 3 | 76.2 | 5.625 | 142.9 | 1.250 | 31.8 | 0.750 | 19.1 | 34.14 | 970 | 115058-11 |
| GJ | 3 | 76.2 | 5.825 | 148.0 | 1.250 | 31.8 | 0.750 | 19.1 | 36.96 | 1050 | 115058-11 |
| GN | 3 | 76.2 | 8.625 | 219.1 | 1.250 | 31.8 | 0.750 | 19.1 | 51.39 | 1460 | 115058-11 |

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Outline Drawing



Case Dimensions Insulation Adders

| | Diameter (D) | | Length (L) | |
|-------------------|--------------|------|------------|------|
| | (in) | (mm) | (in) | (mm) |
| 0.008" PVC | 0.02 | 0.51 | 0.032 | 0.81 |
| 0.012" PVC | 0.03 | 0.63 | 0.062 | 1.58 |

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

| | | | | | | | |
|-------------|------------------|--------------------|------------------|----------------|--------------------------|-----------------------------|----------------------|
| 3188 | GH | 562 | T | 400 | M | P | A1 |
| Type | Case Code | Capacitance | Tolerance | Voltage | Terminal | Insulation | Construction* |
| | | 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 | with mounting clamp/bracket | S1=stud & potted** |
| | | | U= -10 +75% | | K=high current high post | R=0.008" PVC | T1=stud & rilled** |
| | | | | | M=M5 high post | J=0.012" PVC | |
| | | | | | J=M6 low post | | |

* 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, case codes BA, BC and BE

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Ratings

| Capacitance (μ F) | Catalog Part Number | ESR max 120 Hz, 25°C (m Ω) | Ripple max 120 Hz, 85 °C potted (A)rilled(A) | Case Size DxL (in) |
|----------------------------------|------------------------|--|--|--------------------------|
| 16 Volts (20 Volts Surge) | | | | |
| 22000 | 3188BA223U016APA1 | 10.0 | 10.5 12.00 | 1.375 X 2.125 |
| 39000 | 3188BC393U016APA1 | 7.0 | 15.2 17.00 | 1.375 X 3.125 |
| 56000 | 3188BE563U016APA1 | 6.0 | 18.9 21.00 | 1.375 X 4.125 |
| 82000 | 3188EC823U016APA1 | 6.0 | 21.4 24.00 | 2.00 X 3.125 |
| 120000 | 3188EE124U016APA1 | 6.0 | 26.5 30.00 | 2.00 X 4.125 |
| 150000 | 3188EG154U016APA1 | 4.0 | 27.0 30.00 | 2.00 X 5.125 |
| 150000 | 3188EH154U016APA1 | 4.0 | 27.3 30.00 | 2.00 X 5.625 |
| 220000 | 3188FE224U016DPA1 | 3.0 | 38.9 44.00 | 2.50 X 4.125 |
| 270000 | 3188FF274U016DPA1 | 3.0 | 42.5 48.00 | 2.50 X 4.625 |
| 330000 | 3188FH334U016DPA1 | 3.0 | 45.0 50.00 | 2.50 X 5.625 |
| 330000 | 3188GE334U016DPA1 | 3.0 | 43.9 50.00 | 3.00 X 4.125 |
| 390000 | 3188GF394U016DPA1 | 3.0 | 44.2 50.00 | 3.00 X 4.625 |
| 470000 | 3188GH474U016DPA1 | 2.0 | 44.6 50.00 | 3.00 X 5.625 |
| 820000 | 3188GN824U016DPA1 | 2.0 | 46.3 50.00 | 3.00 X 8.625 |
| 1000000 | 3188GN105U016DPA1 | 2.0 | 46.3 50.00 | 3.00 X 8.625 |
| 25 Volts (30 Volts Surge) | | | | |
| 12000 | 3188BA123U025APA1 | 32.0 | 6.0 6.80 | 1.375 X 2.125 |
| 22000 | 3188BC223U025APA1 | 22.0 | 8.6 9.60 | 1.375 X 3.125 |
| 33000 | 3188BE333U025APA1 | 17.0 | 10.8 12.00 | 1.375 X 4.125 |
| 56000 | 3188EC563U025APA1 | 7.0 | 18.8 21.00 | 2.00 X 3.125 |
| 82000 | 3188EE823U025APA1 | 5.0 | 24.8 28.00 | 2.00 X 4.125 |
| 100000 | 3188EG104U025APA1 | 5.0 | 27.0 30.00 | 2.00 X 5.125 |
| 120000 | 3188EH124U025APA1 | 4.0 | 27.3 30.00 | 2.00 X 5.625 |
| 120000 | 3188FE124U025DPA1 | 5.0 | 31.0 35.00 | 2.50 X 4.125 |
| 150000 | 3188FF154U025DPA1 | 4.0 | 33.6 38.00 | 2.50 X 4.625 |
| 180000 | 3188FH184U025DPA1 | 4.0 | 36.9 41.00 | 2.50 X 5.625 |
| 180000 | 3188GE184U025DPA1 | 4.0 | 36.8 42.00 | 3.00 X 4.125 |
| 220000 | 3188GF224U025DPA1 | 4.0 | 40.7 46.00 | 3.00 X 4.625 |
| 270000 | 3188GH274U025DPA1 | 4.0 | 43.8 49.00 | 3.00 X 5.625 |
| 470000 | 3188GN474U025DPA1 | 3.0 | 46.3 50.00 | 3.00 X 8.625 |
| 40 Volts (50 Volts Surge) | | | | |
| 8200 | 3188BA822U040APA1 | 39.0 | 5.4 6.10 | 1.375 X 2.125 |
| 12000 | 3188BC123U040APA1 | 27.0 | 7.8 8.70 | 1.375 X 3.125 |
| 18000 | 3188BE183U040APA1 | 20.0 | 9.9 11.00 | 1.375 X 4.125 |
| 27000 | 3188EC273U040APA1 | 9.0 | 17.0 19.00 | 2.00 X 3.125 |
| 47000 | 3188EE473U040APA1 | 6.0 | 22.1 25.00 | 2.00 X 4.125 |
| 56000 | 3188EG563U040APA1 | 5.0 | 27.0 30.00 | 2.00 X 5.125 |
| 68000 | 3188EH683U040APA1 | 5.0 | 27.3 30.00 | 2.00 X 5.625 |
| 68000 | 3188FE683U040DPA1 | 5.0 | 28.3 32.00 | 2.50 X 4.125 |
| 82000 | 3188FF823U040DPA1 | 5.0 | 31.0 35.00 | 2.50 X 4.625 |
| 100000 | 3188FH104U040DPA1 | 5.0 | 34.2 38.00 | 2.50 X 5.625 |
| 100000 | 3188GE104U040DPA1 | 5.0 | 33.3 38.00 | 3.00 X 4.125 |
| 120000 | 3188GF124U040DPA1 | 4.0 | 37.2 42.00 | 3.00 X 4.625 |
| 150000 | 3188GH154U040DPA1 | 4.0 | 41.1 46.00 | 3.00 X 5.625 |
| 270000 | 3188GN274U040DPA1 | 3.0 | 46.3 50.00 | 3.00 X 8.625 |

| Capacitance (μ F) | Catalog Part Number | ESR max 120 Hz, 25°C (m Ω) | Ripple max 120 Hz, 85 °C potted (A)rilled(A) | Case Size DxL (in) |
|----------------------------------|------------------------|--|--|--------------------------|
| 50 Volts (63 Volts Surge) | | | | |
| 6800 | 3188BA682U050APA1 | 42.0 | 5.2 5.90 | 1.375 X 2.125 |
| 10000 | 3188BC103U050APA1 | 28.0 | 7.5 8.40 | 1.375 X 3.125 |
| 15000 | 3188BE153U050APA1 | 21.0 | 9.9 11.00 | 1.375 X 4.125 |
| 27000 | 3188EC273U050APA1 | 15.0 | 12.5 14.00 | 2.00 X 3.125 |
| 39000 | 3188EE393U050APA1 | 11.0 | 16.8 19.00 | 2.00 X 4.125 |
| 47000 | 3188EG473U050APA1 | 10.0 | 18.9 21.00 | 2.00 X 5.125 |
| 56000 | 3188EH563U050APA1 | 9.0 | 21.8 24.00 | 2.00 X 5.625 |
| 56000 | 3188FE563U050APA1 | 8.0 | 23.0 26.00 | 2.50 X 4.125 |
| 68000 | 3188FF683U050APA1 | 7.0 | 25.7 29.00 | 2.50 X 4.625 |
| 82000 | 3188FH823U050DPA1 | 6.0 | 30.6 34.00 | 2.50 X 5.625 |
| 82000 | 3188GE823U050DPA1 | 6.0 | 28.1 32.00 | 3.00 X 4.125 |
| 100000 | 3188GF104U050DPA1 | 6.0 | 31.9 36.00 | 3.00 X 4.625 |
| 120000 | 3188GH124U050DPA1 | 5.0 | 34.8 39.00 | 3.00 X 5.625 |
| 220000 | 3188GN224U050DPA1 | 4.0 | 46.3 50.00 | 3.00 X 8.625 |
| 63 Volts (75 Volts Surge) | | | | |
| 4700 | 3188BA472U063APA1 | 42.0 | 5.2 5.90 | 1.375 X 2.125 |
| 6800 | 3188BC682U063APA1 | 29.0 | 7.5 8.40 | 1.375 X 3.125 |
| 10000 | 3188BE103U063APA1 | 21.0 | 9.9 11.00 | 1.375 X 4.125 |
| 18000 | 3188EC183U063APA1 | 15.0 | 12.5 14.00 | 2.00 X 3.125 |
| 27000 | 3188EE273U063APA1 | 11.0 | 16.8 19.00 | 2.00 X 4.125 |
| 33000 | 3188EG333U063APA1 | 9.0 | 20.7 23.00 | 2.00 X 5.125 |
| 39000 | 3188EH393U063APA1 | 9.0 | 22.7 25.00 | 2.00 X 5.625 |
| 39000 | 3188FE393U063APA1 | 8.0 | 23.0 26.00 | 2.50 X 4.125 |
| 47000 | 3188FF473U063APA1 | 7.0 | 24.8 28.00 | 2.50 X 4.625 |
| 56000 | 3188FH563U063DPA1 | 7.0 | 27.9 31.00 | 2.50 X 5.625 |
| 56000 | 3188GE563U063DPA1 | 7.0 | 28.1 32.00 | 3.00 X 4.125 |
| 68000 | 3188GF683U063DPA1 | 6.0 | 31.9 36.00 | 3.00 X 4.625 |
| 82000 | 3188GH823U063DPA1 | 5.0 | 34.8 39.00 | 3.00 X 5.625 |
| 150000 | 3188GN154U063DPA1 | 4.0 | 46.3 50.00 | 3.00 X 8.625 |
| 75 Volts (95 Volts Surge) | | | | |
| 2700 | 3188BA272U075APA1 | 46.0 | 5.0 5.70 | 1.375 X 2.125 |
| 4700 | 3188BC472U075APA1 | 30.0 | 7.3 8.20 | 1.375 X 3.125 |
| 6800 | 3188BE682U075APA1 | 22.0 | 9.0 10.00 | 1.375 X 4.125 |
| 12000 | 3188EC123U075APA1 | 16.0 | 12.5 14.00 | 2.00 X 3.125 |
| 18000 | 3188EE183U075APA1 | 12.0 | 15.9 18.00 | 2.00 X 4.125 |
| 22000 | 3188EG223U075APA1 | 10.0 | 19.8 22.00 | 2.00 X 5.125 |
| 27000 | 3188EH273U075APA1 | 9.0 | 21.8 24.00 | 2.00 X 5.625 |
| 27000 | 3188FE273U075APA1 | 8.0 | 22.1 25.00 | 2.50 X 4.125 |
| 33000 | 3188FF333U075APA1 | 7.0 | 24.8 28.00 | 2.50 X 4.625 |
| 39000 | 3188FH393U075DPA1 | 6.0 | 29.7 33.00 | 2.50 X 5.625 |
| 39000 | 3188GE393U075DPA1 | 6.0 | 28.9 33.00 | 3.00 X 4.125 |
| 47000 | 3188GF473U075DPA1 | 6.0 | 31.0 35.00 | 3.00 X 4.625 |
| 56000 | 3188GH563U075DPA1 | 5.0 | 36.6 41.00 | 3.00 X 5.625 |
| 100000 | 3188GN104U075DPA1 | 4.0 | 46.3 50.00 | 3.00 X 8.625 |

Type 3188 Aluminum Electrolytic Screw Terminals

| Capacitance (μ F) | Catalog Part Number | ESR max | Ripple max | Case Size DxL (in) |
|------------------------------------|------------------------|----------------------------------|--|--------------------------|
| | | 120 Hz, 25°C (m Ω) | 120 Hz, 85 °C potted (A) rilled (A) | |
| 100 Volts (125 Volts Surge) | | | | |
| 1800 | 3188BA182U100APA1 | 79.0 | 3.5 4.00 | 1.375 X 2.125 |
| 2700 | 3188BC272U100APA1 | 51.0 | 5.3 5.90 | 1.375 X 3.125 |
| 4700 | 3188BE472U100APA1 | 32.0 | 8.0 8.90 | 1.375 X 4.125 |
| 6800 | 3188EC682U100APA1 | 64.0 | 6.1 6.80 | 2.00 X 3.125 |
| 10000 | 3188EE103U100APA1 | 38.0 | 8.9 10.00 | 2.00 X 4.125 |
| 12000 | 3188EG123U100APA1 | 34.0 | 9.9 11.00 | 2.00 X 5.125 |
| 15000 | 3188EH153U100APA1 | 28.0 | 11.8 13.00 | 2.00 X 5.625 |
| 18000 | 3188FE183U100APA1 | 18.0 | 15.0 17.00 | 2.50 X 4.125 |
| 22000 | 3188FF223U100APA1 | 14.0 | 17.7 20.00 | 2.50 X 4.625 |
| 22000 | 3188FH223U100APA1 | 25.0 | 13.5 15.00 | 2.50 X 5.625 |
| 27000 | 3188GE273U100APA1 | 13.0 | 19.3 22.00 | 3.00 X 4.125 |
| 27000 | 3188GF273U100APA1 | 20.0 | 19.5 18.00 | 3.00 X 4.625 |
| 39000 | 3188GH393U100AA1 | 16.0 | 16.1 21.00 | 3.00 X 5.625 |
| 56000 | 3188GN563U100APA1 | 14.0 | 23.1 25.00 | 3.00 X 8.625 |
| 200 Volts (250 Volts Surge) | | | | |
| 680 | 3188BA681T200APA1 | 130.0 | 2.5 2.90 | 1.375 X 2.125 |
| 1200 | 3188BC122T200APA1 | 76.0 | 3.7 4.10 | 1.375 X 3.125 |
| 1800 | 3188BE182T200APA1 | 53.0 | 6.2 6.90 | 1.375 X 4.125 |
| 2700 | 3188EC272T200APA1 | 76.0 | 5.5 6.20 | 2.00 X 3.125 |
| 3900 | 3188EE392T200APA1 | 51.0 | 7.5 8.50 | 2.00 X 4.125 |
| 4700 | 3188EG472T200APA1 | 36.0 | 9.9 11.00 | 2.00 X 5.125 |
| 5600 | 3188EH562T200APA1 | 20.0 | 13.6 15.00 | 2.00 X 5.625 |
| 6800 | 3188FE682T200APA1 | 24.0 | 12.4 14.00 | 2.50 X 4.125 |
| 8200 | 3188FF822T200APA1 | 21.0 | 14.2 16.00 | 2.50 X 4.625 |
| 10000 | 3188FH103T200APA1 | 17.0 | 18.0 20.00 | 2.50 X 5.625 |
| 10000 | 3188GE103T200APA1 | 25.0 | 14.0 16.00 | 3.00 X 4.125 |
| 12000 | 3188GF123T200APA1 | 22.0 | 15.9 18.00 | 3.00 X 4.625 |
| 15000 | 3188GH153T200APA1 | 19.0 | 18.8 21.00 | 3.00 X 5.625 |
| 22000 | 3188GN223T200APA1 | 15.0 | 23.1 25.00 | 3.00 X 8.625 |
| 250 Volts (300 Volts Surge) | | | | |
| 470 | 3188BA471T250APA1 | 130.0 | 2.5 2.90 | 1.375 X 2.125 |
| 820 | 3188BC821T250APA1 | 86.0 | 4.2 4.70 | 1.375 X 3.125 |
| 1200 | 3188BE122T250APA1 | 54.0 | 6.1 6.80 | 1.375 X 4.125 |
| 1800 | 3188EC182T250APA1 | 76.0 | 6.2 6.90 | 2.00 X 3.125 |
| 2700 | 3188EE272T250APA1 | 52.0 | 7.4 8.40 | 2.00 X 4.125 |
| 3300 | 3188EG332T250APA1 | 22.0 | 12.6 14.00 | 2.00 X 5.125 |
| 3900 | 3188EH392T250APA1 | 19.0 | 14.5 16.00 | 2.00 X 5.625 |
| 4700 | 3188FE472T250APA1 | 25.0 | 12.4 14.00 | 2.50 X 4.125 |
| 5600 | 3188FF562T250APA1 | 20.0 | 14.2 16.00 | 2.50 X 4.625 |

| Capacitance (μ F) | Catalog Part Number | ESR max | Ripple max | Case Size DxL (in) |
|------------------------------------|------------------------|----------------------------------|--|--------------------------|
| | | 120 Hz, 25°C (m Ω) | 120 Hz, 85 °C potted (A) rilled (A) | |
| 250 Volts (300 Volts Surge) | | | | |
| 6800 | 3188FH682T250APA1 | 17.0 | 16.2 18.00 | 2.50 X 5.625 |
| 6800 | 3188GE682T250APA1 | 17.0 | 15.8 18.00 | 3.00 X 4.125 |
| 8200 | 3188GF822T250APA1 | 24.0 | 14.2 16.00 | 3.00 X 4.625 |
| 10000 | 3188GH103T250APA1 | 18.0 | 18.8 21.00 | 3.00 X 5.625 |
| 12000 | 3188GN123T250APA1 | 16.0 | 23.1 25.00 | 3.00 X 8.625 |
| 350 Volts (400 Volts Surge) | | | | |
| 330 | 3188BA331T350APA1 | 290.0 | 1.7 1.90 | 1.375 X 2.125 |
| 560 | 3188BC561T350APA1 | 191.0 | 2.6 2.90 | 1.375 X 3.125 |
| 820 | 3188BE821T350APA1 | 129.0 | 3.8 4.20 | 1.375 X 4.125 |
| 1200 | 3188EC122T350APA1 | 122.0 | 4.5 5.00 | 2.00 X 3.125 |
| 1800 | 3188EE182T350APA1 | 74.0 | 6.5 7.30 | 2.00 X 4.125 |
| 2200 | 3188EG222T350APA1 | 49.0 | 8.2 9.10 | 2.00 X 5.125 |
| 2700 | 3188EH272T350APA1 | 39.0 | 9.0 10.00 | 2.00 X 5.625 |
| 2700 | 3188FE272T350APA1 | 47.0 | 8.9 10.00 | 2.50 X 4.125 |
| 3300 | 3188FF332T350APA1 | 39.0 | 10.6 12.00 | 2.50 X 4.625 |
| 3900 | 3188FH392T350APA1 | 34.0 | 11.7 13.00 | 2.50 X 5.625 |
| 3900 | 3188GE392T350APA1 | 34.0 | 11.4 13.00 | 3.00 X 4.125 |
| 4700 | 3188GF472T350APA1 | 34.0 | 12.4 14.00 | 3.00 X 4.625 |
| 5600 | 3188GH562T350APA1 | 28.0 | 14.3 16.00 | 3.00 X 5.625 |
| 10000 | 3188GN103T350APA1 | 18.0 | 23.1 25.00 | 3.00 X 8.625 |
| 400 Volts (450 Volts Surge) | | | | |
| 270 | 3188BA271T400APA1 | 333.0 | 1.5 1.70 | 1.375 X 2.125 |
| 470 | 3188BC471T400APA1 | 224.0 | 2.6 2.90 | 1.375 X 3.125 |
| 680 | 3188BE681T400APA1 | 134.0 | 3.7 4.10 | 1.375 X 4.125 |
| 1000 | 3188EC102T400APA1 | 127.0 | 4.3 4.80 | 2.00 X 3.125 |
| 1500 | 3188EE152T400APA1 | 63.0 | 6.9 7.80 | 2.00 X 4.125 |
| 1800 | 3188EG182T400APA1 | 53.0 | 7.9 8.80 | 2.00 X 5.125 |
| 2200 | 3188EH222T400APA1 | 45.0 | 8.9 9.80 | 2.00 X 5.625 |
| 2200 | 3188FE222T400APA1 | 45.0 | 8.7 9.80 | 2.50 X 4.125 |
| 2700 | 3188FF272T400APA1 | 47.0 | 9.5 10.70 | 2.50 X 4.625 |
| 3300 | 3188FH332T400APA1 | 35.0 | 11.7 13.00 | 2.50 X 5.625 |
| 3300 | 3188GE332T400APA1 | 35.0 | 11.4 13.00 | 3.00 X 4.125 |
| 3900 | 3188GF392T400APA1 | 37.0 | 11.5 13.00 | 3.00 X 4.625 |
| 4700 | 3188GH472T400APA1 | 31.0 | 13.4 15.00 | 3.00 X 5.625 |
| 8200 | 3188GN822T400APA1 | 24.0 | 20.4 22.00 | 3.00 X 8.625 |
| 450 Volts (525 Volts Surge) | | | | |
| 1000 | 3188EE102T450APA1 | 102.0 | 4.9 5.50 | 2.00 X 4.125 |
| 1500 | 3188EG152T450APA1 | 70.0 | 6.7 7.40 | 2.00 X 5.125 |
| 2200 | 3188FF222T450APA1 | 46.0 | 9.3 10.50 | 2.50 X 4.625 |
| 3300 | 3188GF332T450APA1 | 34.0 | 12.2 13.80 | 3.00 X 4.625 |
| 3900 | 3188GH392T450APA1 | 22.0 | 17.1 19.10 | 3.00 X 5.625 |