

Type 3191, Aluminum Electrolytic Screw Terminal

Screw Terminal Capacitors for Power Output Filtering



The low ESR of Type 3191 capacitors makes them a great choice for output filtering in switching and audio power supplies. It's available with the capacitor element potted in place for lowest cost or secured by rill, spoon shaped dimples in the side of the can. Rilled construction offers high vibration and shock withstanding and excellent heat transfer for higher ripple current.

Highlights

- Stud mount available
- High current application
- Industrial applications
- Smoothing and filtering
- Audio power supplies

Specifications

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---------------|---------------|----------------|----------------|--------------|------|------|------|------|------|--|--------------|---------------|---------------|----------------|----------------|-------------------|------|------|------|------|------|--------------------|------|------|------|------|------|
| Temperature Range | -40 °C to +85 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 7.5 Vdc to 55 Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Range | 2700 µF to 150000 µF | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | -10 to + 30%; -10 to +50%; ±20% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | ≤6√CV µA (6 mA max.) at 5 minutes | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ripple Current Multipliers | <p>Ambient Temperature</p> <table border="1"> <tr> <td>45 °C</td> <td>55 °C</td> <td>65 °C</td> <td>75 °C</td> <td>85 °C</td> </tr> <tr> <td>2.24</td> <td>2.00</td> <td>1.73</td> <td>1.41</td> <td>1.00</td> </tr> </table> <p>Frequency</p> <table border="1"> <tr> <td></td> <td>60 Hz</td> <td>120 Hz</td> <td>300 Hz</td> <td>1000 Hz</td> <td>≥10 kHz</td> </tr> <tr> <td>16 – 100 V</td> <td>0.90</td> <td>1.00</td> <td>1.15</td> <td>1.25</td> <td>1.30</td> </tr> <tr> <td>200 – 500 V</td> <td>0.90</td> <td>1.00</td> <td>1.25</td> <td>1.40</td> <td>1.50</td> </tr> </table> | 45 °C | 55 °C | 65 °C | 75 °C | 85 °C | 2.24 | 2.00 | 1.73 | 1.41 | 1.00 | | 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 |
| 45 °C | 55 °C | 65 °C | 75 °C | 85 °C | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.24 | 2.00 | 1.73 | 1.41 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Temperature Characteristics | <p>Impedance ratio: $Z_{-20^{\circ}\text{C}}/Z_{+25^{\circ}\text{C}}$</p> <p>≤ 8 (16–50 Vdc)</p> <p>≤ 4 (63–100 Vdc)</p> <p>≤ 3 (150–500 Vdc)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endurance Life Test | <p>1,500 h @ full load at 85 °C</p> <p>ΔCapacitance ±10%</p> <p>ESR 200% of limit</p> <p>DCL 100% of limit</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shelf Life Test | <p>500 h @ 85 °C</p> <p>ΔCapacitance ±10%</p> <p>ESR 175% of limit</p> <p>DCL 100% of limit</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vibration | <p>10 to 500 Hz, 0.75 mm or 10 g* if less, 3 directions, 2 h ea</p> <p>Δ Capacitance: ±5%</p> <p>no visible damage or leakage</p> <p>*15 g if rilled construction</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RoHS Compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Type 3191, Aluminum Electrolytic Screw Terminal

Screw Terminal Capacitors for Power Output Filtering

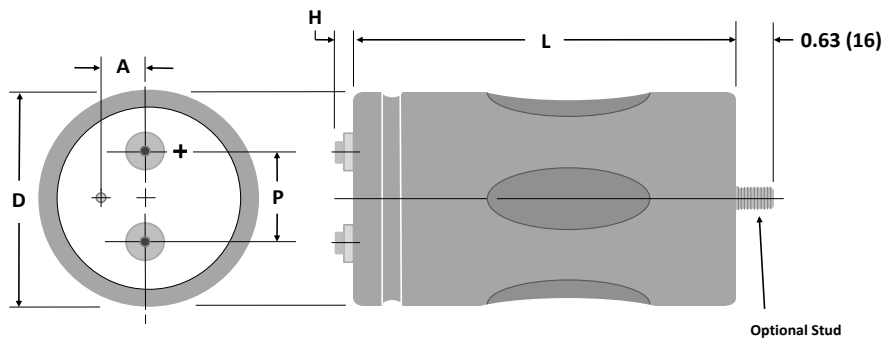
Part Numbering System

| | | | | | | | |
|---------------------------------|------------------------------------|---|--|--|---|---|--|
| 3191 Type | BA Case Code | 153 Capacitance 153=15000 μ F 223=22000 μ F 272=2700 μ F | T Tolerance M= \pm 20% S= -10 +30% T= -10 +50% U= -10 +75% | 7R5 Voltage 7R5=7.5 Vdc 020=20 Vdc | B Terminal A=high post B=low post D=high current low post K=high current | P Insulation P=0.008" PVC H=0.012" PVC N=none with mounting R=0.008" PVC | A1 Construction* A1=potted R1=rilled S1=stud & potted T1=stud & rilled** |
|---------------------------------|------------------------------------|---|--|--|---|---|--|

* 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.

Outline Drawing



Insulation Dimensions

| Code | Clamp Bracket | Insulation Type | Dimension Adders | | |
|----------------------|---------------|-----------------|------------------|--------|--------|
| | | | D | L | H |
| Dimensions in Inches | | | | | |
| P | no | 0.008" PVC | +0.02 | +0.032 | +0.024 |
| H | no | 0.012" PVC | +0.03 | +0.062 | +0.045 |
| N | no | none | - | - | - |
| R | yes | 0.008" PVC | +0.02 | +0.032 | +0.024 |
| J | yes | 0.012" PVC | +0.03 | +0.062 | +0.045 |
| X | yes | none | - | - | - |

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 | 1 3/8 to 3 | B | 0.314 | 8.0 | 0.094 | 2.4 | 10-32 | 0.218 | 5.5 | 25 | 2.82 |
| High Post | 1 3/8 to 3 | A | 0.314 | 8.0 | 0.281 | 7.1 | 10-32 | 0.375 | 9.5 | 25 | 2.82 |
| High Current, Low | 2 1/2 & 3 | D | 0.684 | 17.4 | 0.125 | 3.2 | 1/4-28 | 0.344 | 8.7 | 60 | 6.78 |
| High Current, High | 2 1/2 & 3 | K | 0.684 | 17.4 | 0.281 | 7.1 | 1/4-28 | 0.469 | 11.9 | 60 | 6.78 |
| M5 Post, Small | 1 3/8 to 2 | M | 0.314 | 8.0 | 0.281 | 7.1 | M5 | 0.375 | 9.5 | 25 | 2.82 |
| M6 Low Post | 2 1/2 & 3 | J | 0.684 | 17.4 | 0.125 | 3.2 | M6 | 0.344 | 8.7 | 60 | 6.78 |

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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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Screw Terminal Capacitors for Power Output Filtering

| Cap (μ F) | Type 3191 Catalog Part Number | ESR max 120 Hz 25 °C (m Ω) | Ripple max 120 Hz 85 °C | | Case Size DxL (in) |
|--------------------------------|-------------------------------------|--|--|------|--------------------------|
| Cap (μ F) | Type 3191 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 Vdc (20.8 Vdc Surge) | | | | | |
| 10000 | 3191BA103M016BPA1 | 16.7 | 8.2 | 9.3 | 1.375x2.125 |
| 12000 | 3191BB123M016BPA1 | 14.2 | 9.2 | 10.4 | 1.375x2.625 |
| 15000 | 3191BC153M016BPA1 | 11.7 | 10.8 | 12.1 | 1.375x3.125 |
| 18000 | 3191BC183M016BPA1 | 11.3 | 12.1 | 13.5 | 1.375x3.125 |
| 22000 | 3191BD223M016BPA1 | 9.8 | 12.8 | 14.2 | 1.375x3.625 |
| 22000 | 3191EA223M016BPA1 | 9.8 | 12.5 | 14.2 | 2.00x2.125 |
| 27000 | 3191BF273M016BPA1 | 8.4 | 15.4 | 16.8 | 1.375x4.625 |
| 27000 | 3191EB273M016BPA1 | 8.4 | 14.7 | 16.8 | 2.00x2.625 |
| 33000 | 3191BG333M016BPA1 | 7.6 | 17.2 | 18.4 | 1.375x5.125 |
| 33000 | 3191EC333M016BPA1 | 7.6 | 16.1 | 18.4 | 2.00x3.125 |
| 39000 | 3191EC393M016BPA1 | 9.1 | 15.7 | 17.9 | 2.00x3.125 |
| 47000 | 3191ED473M016BPA1 | 7.8 | 17.4 | 19.7 | 2.00x3.625 |
| 56000 | 3191EE563M016BPA1 | 7.1 | 19.0 | 21.5 | 2.00x4.125 |
| 68000 | 3191EF683M016BPA1 | 6.4 | 21.2 | 23.5 | 2.00x4.625 |
| 82000 | 3191EG823M016BPA1 | 5.9 | 22.8 | 25.3 | 2.00x5.125 |
| 20 Vdc (26 Vdc Surge) | | | | | |
| 8200 | 3191BA822M020BPA1 | 18.2 | 7.8 | 8.9 | 1.375x2.125 |
| 10000 | 3191BB103M020BPA1 | 15.1 | 8.9 | 10.1 | 1.375x2.625 |
| 12000 | 3191BB123M020BPA1 | 14.2 | 9.6 | 10.8 | 1.375x2.625 |
| 15000 | 3191BC153M020BPA1 | 11.9 | 11.1 | 12.4 | 1.375x3.125 |
| 18000 | 3191BD183M020BPA1 | 11.0 | 12.5 | 13.9 | 1.375x3.625 |
| 22000 | 3191BE223M020BPA1 | 9.3 | 13.9 | 15.4 | 1.375x4.125 |
| 22000 | 3191EA223M020BPA1 | 9.3 | 13.5 | 15.4 | 2.00x2.125 |
| 27000 | 3191BF273M020BPA1 | 8.0 | 16.0 | 17.4 | 1.375x4.625 |
| 27000 | 3191EB273M020BPA1 | 8.0 | 15.5 | 17.4 | 2.00x2.625 |
| 33000 | 3191BH333M020BPA1 | 7.3 | 18.0 | 19.4 | 1.375x5.625 |
| 33000 | 3191EC333M020BPA1 | 7.3 | 17.0 | 19.4 | 2.00x3.125 |
| 39000 | 3191ED393M020BPA1 | 7.9 | 16.7 | 18.9 | 2.00x3.625 |
| 47000 | 3191EE473M020BPA1 | 7.0 | 19.6 | 21.7 | 2.00x4.125 |
| 56000 | 3191EF563M020BPA1 | 6.4 | 21.9 | 23.9 | 2.00x4.625 |
| 68000 | 3191EG683M020BPA1 | 5.9 | 22.3 | 24.8 | 2.00x5.125 |
| 82000 | 3191EH823M020BPA1 | 5.6 | 24.6 | 27.1 | 2.00x5.625 |
| 28 Vdc (36.4 Surge) | | | | | |
| 4700 | 3191BA472M028BPA1 | 23.4 | 6.6 | 7.5 | 1.375x2.125 |
| 5600 | 3191BB562M028BPA1 | 22.5 | 7.0 | 7.9 | 1.375x2.625 |
| 6800 | 3191BB682M028BPA1 | 19.0 | 7.5 | 8.5 | 1.375x2.625 |
| 8200 | 3191BB822M028BPA1 | 17.5 | 8.3 | 9.4 | 1.375x2.625 |
| 10000 | 3191BC103M028BPA1 | 15.0 | 10.1 | 11.3 | 1.375x3.125 |
| 12000 | 3191BD123M028BPA1 | 12.7 | 11.4 | 12.7 | 1.375x3.625 |
| 15000 | 3191BE153M028BPA1 | 11.2 | 12.7 | 14.1 | 1.375x4.125 |
| 15000 | 3191EA153M028BPA1 | 11.2 | 12.4 | 14.1 | 2.00x2.125 |
| 28 Vdc (36.4 Surge) | | | | | |
| 18000 | 3191BF183M028BPA1 | 9.9 | 14.6 | 15.9 | 1.375x4.625 |
| 18000 | 3191EB183M028BPA1 | 9.9 | 14.2 | 15.9 | 2.00x2.625 |
| 22000 | 3191BG223M028BPA1 | 8.6 | 7.0 | 7.5 | 1.375x5.125 |
| 22000 | 3191EC223M028BPA1 | 8.6 | 6.6 | 7.5 | 2.00x3.125 |
| 27000 | 3191ED273M028BPA1 | 8.1 | 16.9 | 19.1 | 2.00x3.625 |
| 33000 | 3191EE333M028BPA1 | 7.3 | 19.2 | 21.7 | 2.00x4.125 |
| 39000 | 3191EF393M028BPA1 | 6.6 | 21.5 | 23.9 | 2.00x4.625 |
| 47000 | 3191EG473M028BPA1 | 6.0 | 22.8 | 25.3 | 2.00x5.125 |
| 35 Vdc (45.5 Vdc Surge) | | | | | |
| 3900 | 3191BA392M035BPA1 | 25.4 | 6.8 | 7.7 | 1.375x2.125 |
| 4700 | 3191BB472M035BPA1 | 21.2 | 7.9 | 8.9 | 1.375x2.625 |
| 5600 | 3191BB562M035BPA1 | 19.1 | 8.2 | 9.3 | 1.375x2.625 |
| 6800 | 3191BC682M035BPA1 | 17.2 | 8.8 | 9.9 | 1.375x3.125 |
| 8200 | 3191BD822M035BPA1 | 14.7 | 10.7 | 11.9 | 1.375x3.625 |
| 10000 | 3191BD103M035BPA1 | 12.9 | 11.7 | 13 | 1.375x3.625 |
| 10000 | 3191EA103M035BPA1 | 12.9 | 11.4 | 13 | 2.00x2.125 |
| 12000 | 3191BF123M035BPA1 | 11.4 | 13.1 | 14.3 | 1.375x4.625 |
| 12000 | 3191EB123M035BPA1 | 11.4 | 12.8 | 14.3 | 2.00x2.625 |
| 15000 | 3191BG153M035BPA1 | 9.6 | 14.8 | 15.8 | 1.375x5.125 |
| 15000 | 3191EC153M035BPA1 | 9.6 | 14.1 | 15.8 | 2.00x3.125 |
| 18000 | 3191ED183M035BPA1 | 8.8 | 16.7 | 18.9 | 2.00x3.625 |
| 22000 | 3191ED223M035BPA1 | 8.1 | 17.9 | 20.2 | 2.00x3.625 |
| 27000 | 3191EF273M035BPA1 | 6.9 | 20.2 | 22.8 | 2.00x4.125 |
| 33000 | 3191EG333M035BPA1 | 6.4 | 22.2 | 24.6 | 2.00x5.125 |
| 39000 | 3191EH393M035BPA1 | 6.0 | 24.4 | 26.8 | 2.00x5.625 |
| 55 Vdc (71.5 Vdc Surge) | | | | | |
| 2700 | 3191BA272M055BPA1 | 33.2 | 6.3 | 7.2 | 1.375x2.125 |
| 3900 | 3191BB392M055BPA1 | 23.3 | 8.0 | 9 | 1.375x2.625 |
| 4700 | 3191BC472M055BPA1 | 19.4 | 9.1 | 10.2 | 1.375x3.125 |
| 5600 | 3191BD562M055BPA1 | 16.4 | 10.5 | 11.6 | 1.375x3.625 |
| 6800 | 3191BE682M055BPA1 | 15.2 | 11.6 | 12.9 | 1.375x4.125 |
| 6800 | 3191EA682M055BPA1 | 15.2 | 11.3 | 12.9 | 2.00x2.125 |
| 8200 | 3191BF822M055BPA1 | 12.7 | 13.5 | 14.7 | 1.375x4.625 |
| 8200 | 3191EB822M055BPA1 | 12.7 | 12.9 | 14.7 | 2.00x2.625 |
| 10000 | 3191BH103M055BPA1 | 10.9 | 16.1 | 17.2 | 1.375x5.625 |
| 10000 | 3191EC103M055BPA1 | 10.9 | 15.1 | 17.2 | 2.00x3.125 |
| 12000 | 3191ED123M055BPA1 | 9.9 | 16.5 | 18.6 | 2.00x3.625 |
| 15000 | 3191EE153M055BPA1 | 8.9 | 18.0 | 20.3 | 2.00x4.125 |
| 18000 | 3191EF183M055BPA1 | 7.8 | 19.6 | 21.8 | 2.00x4.625 |
| 22000 | 3191EG223M055BPA1 | 7.1 | 21.7 | 24.1 | 2.00x5.125 |

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