

Type 420C 85 °C, Long-Life, Inverter Grade, Radial Leaded

Best Value High Ripple Type Plug-in



Type 420C is the PC-mount version of the Type 520C screw terminal, computer grade capacitor and the 85 °C version of the Type 450C Inverter Grade capacitor. It delivers the ripple current capability and exceptional life needed for motor-drive bus capacitors and approaches the performance of the 450C at a lower cost. The extended cathode foil of the 420C assures cool operation and heat flow from the capacitor element to the can in all orientations.

Highlights

- For motor drives and UPS systems
- ESRs to 6.9 mΩ
- Printed-circuit mounting
- Thermal-Pak™ extended cathode construction

Specifications

- Operating Temperature:** -40 °C to 85 °C
Rated Voltage: 100 to 500 Vdc
Capacitance: 160 μF to 27,000 μF ± 20%
DC Leakage Current: ≤ 3 \sqrt{CV} μA, 4 mA max, 5 minutes
Cold Impedance: -20 °C multiple of 25 °C $Z \leq 3$
Ripple Current Multipliers: **Ambient Temperature**

| 45 °C | 55 °C | 65 °C | 75 °C | 85 °C |
|-------|-------|-------|-------|-------|
| 1.80 | 1.63 | 1.45 | 1.25 | 1.00 |

Frequency

| | 50 Hz | 60 Hz | 120 Hz | 360 Hz | 1 kHz | 5 kHz | 10 kHz |
|--------------------------------------|-------|-------|--------|--------|-------|-------|--------|
| 1 3/8" & 1 3/4" Diameters | | | | | | | |
| 100 to 350 V | 0.91 | 0.93 | 1.00 | 1.06 | 1.08 | 1.09 | 1.09 |
| 400 to 500 V | 0.82 | 0.86 | 1.00 | 1.14 | 1.20 | 1.23 | 1.23 |
| 2" Diameters | | | | | | | |
| 100 to 350 V | 0.92 | 0.94 | 1.00 | 1.05 | 1.07 | 1.08 | 1.08 |
| 400 to 500 V | 0.82 | 0.86 | 1.00 | 1.14 | 1.20 | 1.23 | 1.27 |

EIA Ripple Life: 4000 h at full load at 85 °C per EIA IS-749

- Δ capacitance ± 20%
- ESR 200 % of limit
- DCL 100 % of limit

Life Test: 6,000 h at 85°C with rated voltage

- Δ Capacitance ±10%
- ESR 200% of limit
- DCL 100% of limit

Shelf Life Test: 500 h at 105 °C. Capacitance, ESR and DCL meet initial requirements

Vibration: 10 to 55 Hz, 0.06" and 10 g max, 2 h each plane

Type 420C 85 °C, Long-Life, Inverter Grade, Radial Leaded Outline Drawings



Case Dimensions

| Case Code | Inches | | | | | | Millimeters | | | | | |
|-----------|----------|-------|----------|----------|----------|----------|-------------|--------|---------|---------|---------|---------|
| | D ± .031 | L MAX | C ± .015 | S ± .031 | E ± .031 | F ± .015 | D ± .78 | L MAX | C ± .78 | S ± .78 | E ± .78 | F ± .38 |
| AK | 1.375 | 1.75 | 0.50 | 0.175 | 0.25 | 0.55 | 34.93 | 44.45 | 12.70 | 4.45 | 6.35 | 13.97 |
| AA | 1.375 | 2.25 | 0.50 | 0.175 | 0.25 | 0.55 | 34.93 | 57.15 | 12.70 | 4.45 | 6.35 | 13.97 |
| AH | 1.375 | 2.75 | 0.50 | 0.175 | 0.25 | 0.55 | 34.98 | 69.85 | 12.70 | 4.45 | 6.35 | 13.97 |
| AB | 1.375 | 3.25 | 0.50 | 0.175 | 0.25 | 0.55 | 34.93 | 82.55 | 12.70 | 4.45 | 6.35 | 13.97 |
| AJ | 1.375 | 3.75 | 0.50 | 0.175 | 0.25 | 0.55 | 34.93 | 95.25 | 12.70 | 4.45 | 6.35 | 13.97 |
| AC | 1.375 | 4.25 | 0.50 | 0.175 | 0.25 | 0.55 | 34.93 | 107.95 | 12.70 | 4.45 | 6.35 | 13.97 |
| AD | 1.375 | 4.75 | 0.50 | 0.175 | 0.25 | 0.55 | 34.93 | 120.65 | 12.70 | 4.45 | 6.35 | 13.97 |
| AE | 1.375 | 5.25 | 0.50 | 0.175 | 0.25 | 0.55 | 34.93 | 133.35 | 12.70 | 4.45 | 6.35 | 13.97 |
| AF | 1.375 | 5.75 | 0.50 | 0.175 | 0.25 | 0.55 | 34.93 | 146.05 | 12.70 | 4.45 | 6.35 | 13.97 |
| EA | 1.75 | 2.25 | 0.70 | 0.375 | 0.35 | 0.90 | 44.45 | 57.15 | 17.78 | 9.53 | 8.89 | 22.86 |
| EH | 1.75 | 2.75 | 0.70 | 0.375 | 0.35 | 0.90 | 44.45 | 69.85 | 17.78 | 9.53 | 8.89 | 22.86 |
| EB | 1.75 | 3.25 | 0.70 | 0.375 | 0.35 | 0.90 | 44.45 | 82.55 | 17.78 | 9.53 | 8.89 | 22.86 |
| EJ | 1.75 | 3.75 | 0.70 | 0.375 | 0.35 | 0.90 | 44.45 | 95.25 | 17.78 | 9.53 | 8.89 | 22.86 |
| EC | 1.75 | 4.25 | 0.70 | 0.375 | 0.35 | 0.90 | 44.45 | 107.95 | 17.78 | 9.53 | 8.89 | 22.86 |
| ED | 1.75 | 4.75 | 0.70 | 0.375 | 0.35 | 0.90 | 44.45 | 120.65 | 17.78 | 9.53 | 8.89 | 22.86 |
| EE | 1.75 | 5.25 | 0.70 | 0.375 | 0.35 | 0.90 | 44.45 | 133.35 | 17.78 | 9.53 | 8.89 | 22.86 |
| EF | 1.75 | 5.75 | 0.70 | 0.375 | 0.35 | 0.90 | 44.45 | 146.05 | 17.78 | 9.53 | 8.89 | 22.86 |
| BA | 2.00 | 2.25 | 0.80 | 0.425 | 0.40 | 1.00 | 50.80 | 57.15 | 20.32 | 10.80 | 10.16 | 25.40 |
| BH | 2.00 | 2.75 | 0.80 | 0.425 | 0.40 | 1.00 | 50.80 | 69.85 | 20.32 | 10.80 | 10.16 | 25.40 |
| BB | 2.00 | 3.25 | 0.80 | 0.425 | 0.40 | 1.00 | 50.80 | 82.55 | 20.32 | 10.80 | 10.16 | 25.40 |
| BJ | 2.00 | 3.75 | 0.80 | 0.425 | 0.40 | 1.00 | 50.80 | 95.25 | 20.32 | 10.80 | 10.16 | 25.40 |
| BC | 2.00 | 4.25 | 0.80 | 0.425 | 0.40 | 1.00 | 50.80 | 107.95 | 20.32 | 10.80 | 10.16 | 25.40 |
| BD | 2.00 | 4.75 | 0.80 | 0.425 | 0.40 | 1.00 | 50.80 | 120.65 | 20.32 | 10.80 | 10.16 | 25.40 |
| BE | 2.00 | 5.25 | 0.80 | 0.425 | 0.40 | 1.00 | 50.80 | 133.25 | 20.32 | 10.80 | 10.16 | 25.40 |
| BF | 2.00 | 5.75 | 0.80 | 0.425 | 0.40 | 1.00 | 50.80 | 146.05 | 20.32 | 10.80 | 10.16 | 25.40 |

Part Numbering System

| | | | | | | |
|------|-------------------------------|---|----------------------------|--------------|--|-----------------------------------|
| 420C | 242 | M | 100 | AK | 8 | |
| | | | | | | |
| Type | Capacitance | Tolerance | Voltage | Case Code | Insulation | Terminal (blank) = Straight Leads |
| | 242 = 2400 µF 221 = 220 µF | M = ±20% T = -10% +50% U = -10 +75% | 100 = 100 V 450 = 450 V | 0 = Bare can | 8 = PVC and Standoffs 9 = Polyester and Standoffs | |

Type 420C 85 °C, Long-Life, Inverter Grade, Radial Leaded

Ratings

RoHS Compliant

| Cap. (µF) | Catalog Part Number | ESR Max. 25 °C | | Ripple Amps, 85 °C | | Nominal Size D X L (in) |
|--------------------------------|------------------------|-------------------|----------------|-----------------------|---------------|-------------------------------|
| | | 120 Hz (µΩ) | 20 kHz (µΩ) | 120 Hz (A) | 20 kHz (A) | |
| 100 Vdc (125 Vdc Surge) | | | | | | |
| 2400 | 420C242M100AK8 | 74.60 | 50.60 | 3.80 | 4.80 | 1 3/8 X 1 3/4 |
| 3600 | 420C362M100AA8 | 50.10 | 34.00 | 5.30 | 6.70 | 1 3/8 X 2 1/4 |
| 5000 | 420C502M100AH8 | 36.60 | 24.80 | 6.40 | 8.10 | 1 3/8 X 2 3/4 |
| 5300 | 420C532M100EA8 | 39.90 | 27.10 | 6.90 | 8.60 | 1 3/4 X 2 1/4 |
| 6400 | 420C642M100AB8 | 28.40 | 19.30 | 7.90 | 9.80 | 1 3/8 X 3 1/4 |
| 6800 | 420C682M100BA8 | 36.90 | 25.10 | 7.70 | 9.60 | 2 X 2 1/4 |
| 7300 | 420C732M100EH8 | 28.60 | 19.40 | 8.70 | 10.90 | 1 3/4 X 2 3/4 |
| 7800 | 420C782M100AJ8 | 23.40 | 15.90 | 9.10 | 11.40 | 1 3/8 X 3 3/4 |
| 9100 | 420C912M100BH8 | 26.20 | 17.80 | 9.80 | 12.30 | 2 X 2 3/4 |
| 9300 | 420C932M100AC8 | 20.00 | 13.60 | 10.40 | 12.90 | 1 3/8 X 4 1/4 |
| 9600 | 420C962M100EB8 | 22.20 | 15.00 | 10.70 | 13.30 | 1 3/4 X 3 1/4 |
| 11000 | 420C113M100AD8 | 17.60 | 11.90 | 11.50 | 14.40 | 1 3/8 X 4 3/4 |
| 12000 | 420C123M100AE8 | 15.80 | 10.70 | 12.80 | 15.90 | 1 3/8 X 5 1/4 |
| 12000 | 420C123M100EJ8 | 18.20 | 12.40 | 12.20 | 15.20 | 1 3/4 X 3 3/4 |
| 12000 | 420C123M100BB8 | 20.30 | 13.80 | 11.80 | 14.70 | 2 X 3 1/4 |
| 14000 | 420C143M100EC8 | 15.60 | 10.60 | 13.60 | 17.00 | 1 3/4 X 4 1/4 |
| 14000 | 420C143M100AF8 | 18.10 | 12.30 | 12.50 | 15.70 | 1 3/8 X 5 3/4 |
| 15000 | 420C153M100BJ8 | 16.70 | 11.40 | 14.50 | 18.20 | 2 X 3 3/4 |
| 16000 | 420C163M100ED8 | 13.70 | 9.30 | 15.30 | 19.20 | 1 3/4 X 4 3/4 |
| 18000 | 420C183M100EE8 | 12.30 | 8.30 | 17.10 | 21.40 | 1 3/4 X 5 1/4 |
| 18000 | 420C183M100BC8 | 14.30 | 9.70 | 15.80 | 19.70 | 2 X 4 1/4 |
| 20000 | 420C203M100BD8 | 12.70 | 8.60 | 17.30 | 21.70 | 2 X 4 3/4 |
| 21000 | 420C213M100EF8 | 11.20 | 7.60 | 19.20 | 24.00 | 1 3/4 X 5 3/4 |
| 24000 | 420C243M100BE8 | 11.10 | 7.50 | 19.20 | 24.00 | 2 X 5 1/4 |
| 27000 | 420C273M100BF8 | 10.20 | 6.90 | 20.70 | 25.90 | 2 X 5 3/4 |
| 160 Vdc (200 Vdc Surge) | | | | | | |
| 1300 | 420C132M160AK8 | 94.80 | 57.00 | 4.20 | 5.40 | 1 3/8 X 1 3/4 |
| 1900 | 420C192M160AA8 | 63.90 | 38.70 | 5.90 | 7.50 | 1 3/8 X 2 1/4 |
| 2800 | 420C282M160EA8 | 49.00 | 33.40 | 7.40 | 8.90 | 1 3/4 X 2 1/4 |
| 3000 | 420C302M160AH8 | 45.00 | 27.50 | 7.20 | 9.20 | 1 3/8 X 2 3/4 |
| 3600 | 420C362M160AB8 | 35.10 | 21.80 | 8.80 | 11.10 | 1 3/8 X 3 1/4 |
| 3600 | 420C362M160BA8 | 42.80 | 31.70 | 8.00 | 9.30 | 2 X 2 1/4 |
| 3900 | 420C392M160EH8 | 34.90 | 23.60 | 9.30 | 11.30 | 1 3/4 X 2 3/4 |
| 4400 | 420C442M160AJ8 | 29.10 | 18.30 | 10.10 | 12.70 | 1 3/8 X 3 3/4 |
| 4800 | 420C482M160BH8 | 30.10 | 22.10 | 10.30 | 12.10 | 2 X 2 3/4 |
| 5100 | 420C512M160EB8 | 27.10 | 18.50 | 11.40 | 13.80 | 1 3/4 X 3 1/4 |
| 5200 | 420C522M160AC8 | 25.10 | 16.00 | 11.50 | 14.40 | 1 3/8 X 4 1/4 |
| 5700 | 420C572M160AD8 | 23.00 | 14.70 | 12.50 | 15.70 | 1 3/8 X 4 3/4 |
| 6300 | 420C632M160EJ8 | 22.40 | 15.40 | 13.00 | 15.60 | 1 3/4 X 3 3/4 |
| 6400 | 420C642M160BB8 | 23.50 | 17.30 | 12.30 | 14.40 | 2 X 3 1/4 |
| 6600 | 420C662M160AE8 | 20.80 | 13.50 | 13.80 | 17.10 | 1 3/8 X 5 1/4 |
| 7200 | 420C722M160AF8 | 19.20 | 12.70 | 15.10 | 18.60 | 1 3/8 X 5 3/4 |
| 7400 | 420C742M160EC8 | 19.30 | 13.40 | 14.50 | 17.40 | 1 3/4 X 4 1/4 |
| 7900 | 420C792M160BJ8 | 19.40 | 14.40 | 15.20 | 17.60 | 2 X 3 3/4 |
| 8600 | 420C862M160ED8 | 17.00 | 12.00 | 16.30 | 19.40 | 1 3/4 X 4 3/4 |
| 9300 | 420C932M160BC8 | 16.70 | 12.50 | 16.50 | 19.00 | 2 X 4 1/4 |
| 9700 | 420C972M160EE8 | 15.40 | 10.90 | 18.10 | 21.50 | 1 3/4 X 5 1/4 |
| 11000 | 420C113M160EF8 | 14.10 | 10.20 | 20.20 | 23.80 | 1 3/4 X 5 3/4 |
| 11000 | 420C113M160BD8 | 14.80 | 11.10 | 18.10 | 20.80 | 2 X 4 3/4 |
| 13000 | 420C133M160BE8 | 13.10 | 10.00 | 19.90 | 22.70 | 2 X 5 1/4 |
| 14000 | 420C143M160BF8 | 12.10 | 9.30 | 21.40 | 24.40 | 2 X 5 3/4 |
| 200 Vdc (250 Vdc Surge) | | | | | | |
| 900 | 420C901M200AK8 | 130.00 | 73.40 | 3.60 | 4.80 | 1 3/8 X 1 3/4 |
| 1300 | 420C132M200AA8 | 87.60 | 49.60 | 5.00 | 6.70 | 1 3/8 X 2 1/4 |
| 2000 | 420C202M200EA8 | 63.50 | 40.20 | 6.50 | 8.10 | 1 3/4 X 2 1/4 |
| 2000 | 420C202M200AH8 | 61.40 | 35.10 | 6.20 | 8.20 | 1 3/8 X 2 3/4 |
| 2500 | 420C252M200AB8 | 47.70 | 27.60 | 7.50 | 9.90 | 1 3/8 X 3 1/4 |

| Cap. (µF) | Catalog Part Number | ESR Max. 25 °C | | Ripple Amps, 85 °C | | Nominal Size D X L (in) |
|--------------------------------|------------------------|-------------------|----------------|-----------------------|---------------|-------------------------------|
| | | 120 Hz (µΩ) | 20 kHz (µΩ) | 120 Hz (A) | 20 kHz (A) | |
| 2500 | 420C252M200BA8 | 53.20 | 36.50 | 7.20 | 8.70 | 2 X 2 1/4 |
| 2700 | 420C272M200EH8 | 45.50 | 28.50 | 8.20 | 10.30 | 1 3/4 X 2 3/4 |
| 3100 | 420C312M200AJ8 | 39.30 | 23.00 | 8.70 | 11.40 | 1 3/8 X 3 3/4 |
| 3400 | 420C342M200BH8 | 37.70 | 25.60 | 9.20 | 11.20 | 2 X 2 3/4 |
| 3600 | 420C362M200EB8 | 35.20 | 22.30 | 10.00 | 12.60 | 1 3/4 X 3 1/4 |
| 3700 | 420C372M200AC8 | 33.60 | 20.00 | 9.90 | 12.90 | 1 3/8 X 4 1/4 |
| 4100 | 420C412M200AD8 | 30.80 | 18.30 | 10.80 | 14.00 | 1 3/8 X 4 3/4 |
| 4400 | 420C442M200EJ8 | 29.00 | 18.50 | 11.40 | 14.30 | 1 3/4 X 3 3/4 |
| 4500 | 420C452M200BB8 | 29.30 | 20.00 | 11.00 | 13.40 | 2 X 3 1/4 |
| 4700 | 420C472M200AE8 | 27.70 | 16.70 | 12.00 | 15.40 | 1 3/8 X 5 1/4 |
| 5100 | 420C512M200AF8 | 25.30 | 15.50 | 13.20 | 16.80 | 1 3/8 X 5 3/4 |
| 5300 | 420C532M200EC8 | 24.80 | 16.00 | 12.80 | 15.90 | 1 3/4 X 4 1/4 |
| 5600 | 420C562M200BJ8 | 24.10 | 16.60 | 13.60 | 16.40 | 2 X 3 3/4 |
| 6100 | 420C612M200ED8 | 21.80 | 14.20 | 14.40 | 17.80 | 1 3/4 X 4 3/4 |
| 6600 | 420C662M200BC8 | 20.60 | 14.30 | 14.80 | 17.80 | 2 X 4 1/4 |
| 6900 | 420C692M200EE8 | 19.60 | 12.90 | 16.10 | 19.80 | 1 3/4 X 5 1/4 |
| 7600 | 420C762M200BD8 | 18.20 | 12.70 | 16.30 | 19.50 | 2 X 4 3/4 |
| 7800 | 420C782M200EF8 | 17.90 | 11.90 | 18.00 | 22.00 | 1 3/4 X 5 3/4 |
| 9100 | 420C912M200BE8 | 16.00 | 11.30 | 18.00 | 21.30 | 2 X 5 1/4 |
| 10000 | 420C103M200BF8 | 14.70 | 10.50 | 19.40 | 23.00 | 2 X 5 3/4 |
| 250 Vdc (300 Vdc Surge) | | | | | | |
| 600 | 420C601M250AK8 | 176.00 | 75.90 | 3.10 | 4.70 | 1 3/8 X 1 3/4 |
| 900 | 420C901M250AA8 | 118.00 | 51.30 | 4.30 | 6.60 | 1 3/8 X 2 1/4 |
| 1000 | 420C102M250AH8 | 82.60 | 36.30 | 5.30 | 8.00 | 1 3/8 X 2 3/4 |
| 1300 | 420C132M250EA8 | 82.30 | 41.20 | 5.70 | 8.00 | 1 3/4 X 2 1/4 |
| 1700 | 420C172M250AB8 | 63.80 | 28.40 | 6.50 | 9.80 | 1 3/8 X 3 1/4 |
| 1700 | 420C172M250BA8 | 66.60 | 37.20 | 6.40 | 8.60 | 2 X 2 1/4 |
| 1800 | 420C182M250EH8 | 59.10 | 29.20 | 7.20 | 10.20 | 1 3/4 X 2 3/4 |
| 2000 | 420C202M250AJ8 | 52.40 | 23.70 | 7.50 | 11.20 | 1 3/8 X 3 3/4 |
| 2300 | 420C232M250BH8 | 47.50 | 26.10 | 8.20 | 11.10 | 2 X 2 3/4 |
| 2400 | 420C242M250EB8 | 45.70 | 22.80 | 8.80 | 12.40 | 1 3/4 X 3 1/4 |
| 2400 | 420C242M250AC8 | 44.60 | 20.60 | 8.60 | 12.70 | 1 3/8 X 4 1/4 |
| 2700 | 420C272M250AD8 | 40.80 | 18.80 | 9.40 | 13.80 | 1 3/8 X 4 3/4 |
| 2900 | 420C292M250EJ8 | 37.40 | 18.90 | 10.00 | 14.10 | 1 3/4 X 3 3/4 |
| 3000 | 420C302M250BB8 | 36.70 | 20.40 | 9.80 | 13.20 | 2 X 3 1/4 |
| 3100 | 420C312M250AE8 | 36.50 | 17.20 | 10.40 | 15.20 | 1 3/8 X 5 1/4 |
| 3400 | 420C342M250AF8 | 33.2 | 15.9 | 11.5 | 16.6 | 1 3/8 X 5 3/4 |
| 3500 | 420C352M250EC8 | 31.9 | 16.3 | 11.3 | 15.8 | 1 3/4 X 4 1/4 |
| 3700 | 420C372M250BJ8 | 30.1 | 16.9 | 12.2 | 16.3 | 2 X 3 3/4 |
| 4100 | 420C412M250ED8 | 27.9 | 14.5 | 12.7 | 17.6 | 1 3/4 X 4 3/4 |
| 4400 | 420C442M250BC8 | 25.7 | 14.6 | 13.3 | 17.6 | 2 X 4 1/4 |
| 4600 | 420C462M250EE8 | 24.9 | 13.2 | 14.2 | 19.6 | 1 3/4 X 5 1/4 |
| 5100 | 420C512M250BD8 | 22.7 | 13.0 | 14.6 | 19.3 | 2 X 4 3/4 |
| 5200 | 420C522M250EF8 | 22.6 | 12.2 | 16.0 | 21.8 | 1 3/4 X 5 3/4 |
| 6000 | 420C602M250BE8 | 19.7 | 11.5 | 16.2 | 21.2 | 2 X 5 1/4 |
| 6700 | 420C672M250BF8 | 18.0 | 10.7 | 17.5 | 22.8 | 2 X 5 3/4 |
| 300 Vdc (350 Vdc Surge) | | | | | | |
| 450 | 420C451M300AK8 | 262.00 | 126.00 | 2.30 | 3.30 | 1 3/8 X 1 3/4 |
| 680 | 420C681M300AA8 | 175.00 | 84.70 | 3.20 | 4.50 | 1 3/8 X 2 1/4 |
| 1000 | 420C102M300AH8 | 122.00 | 59.50 | 3.90 | 5.60 | 1 3/8 X 2 3/4 |
| 1100 | 420C112M300EA8 | 111.00 | 54.10 | 4.50 | 6.50 | 1 3/4 X 2 1/4 |
| 1300 | 420C132M300AB8 | 93.70 | 46.20 | 4.80 | 6.80 | 1 3/8 X 3 1/4 |
| 1400 | 420C142M300BA8 | 98.90 | 49.30 | 5.20 | 7.40 | 2 X 2 1/4 |
| 1500 | 420C152M300AJ8 | 76.40 | 38.20 | 5.60 | 7.90 | 1 3/8 X 3 3/4 |
| 1500 | 420C152M300EH8 | 81.10 | 38.90 | 5.60 | 8.10 | 1 3/4 X 2 3/4 |
| 1800 | 420C182M300AC8 | 64.70 | 32.70 | 6.40 | 9.00 | 1 3/8 X 4 1/4 |
| 1900 | 420C192M300BH8 | 71.00 | 34.80 | 6.60 | 9.40 | 2 X 2 3/4 |
| 2000 | 420C202M300EB8 | 62.40 | 30.20 | 6.90 | 10.00 | 1 3/4 X 3 1/4 |

Type 420C 85 °C, Long-Life, Inverter Grade, Radial Leaded

| Cap. (µF) | Catalog Part Number | ESR Max. 25 °C | | Ripple Amps, 85 °C | | Nominal Size D X L (in) |
|--------------------------------|------------------------|-------------------|----------------|-----------------------|---------------|-------------------------------|
| | | 120 Hz (µΩ) | 20 kHz (µΩ) | 120 Hz (A) | 20 kHz (A) | |
| 2200 | 420C222M300AD8 | 56.30 | 28.90 | 7.10 | 10.00 | 1 3/8 X 4 3/4 |
| 2500 | 420C252M300AE8 | 49.90 | 26.10 | 7.90 | 11.00 | 1 3/8 X 5 1/4 |
| 2500 | 420C252M300EJ8 | 50.90 | 24.90 | 7.90 | 11.30 | 1 3/4 X 3 3/4 |
| 2600 | 420C262M300BB8 | 54.70 | 27.10 | 7.90 | 11.30 | 2 X 3 1/4 |
| 2700 | 420C272M300AF8 | 45.00 | 23.90 | 8.80 | 12.10 | 1 3/8 X 5 3/4 |
| 3000 | 420C302M300EC8 | 44.90 | 22.20 | 8.90 | 12.70 | 1 3/4 X 4 1/4 |
| 3200 | 420C322M300BJ8 | 44.70 | 22.30 | 9.80 | 13.90 | 2 X 3 3/4 |
| 3400 | 420C342M300ED8 | 39.00 | 19.60 | 10.10 | 14.30 | 1 3/4 X 4 3/4 |
| 3700 | 420C372M300BC8 | 38.50 | 19.20 | 10.70 | 15.10 | 2 X 4 1/4 |
| 3900 | 420C392M300EE8 | 34.70 | 17.70 | 11.40 | 15.90 | 1 3/4 X 5 1/4 |
| 4300 | 420C432M300BD8 | 33.30 | 17.00 | 11.80 | 16.60 | 2 X 4 3/4 |
| 4400 | 420C442M300EF8 | 31.30 | 16.20 | 12.80 | 17.80 | 1 3/4 X 5 3/4 |
| 5100 | 420C512M300BE8 | 28.60 | 14.90 | 13.20 | 18.30 | 2 X 5 1/4 |
| 5700 | 420C572M300BF8 | 26.00 | 13.80 | 14.40 | 19.70 | 2 X 5 3/4 |
| 350 Vdc (400 Vdc Surge) | | | | | | |
| 350 | 420C351M350AK8 | 301.00 | 141.00 | 2.10 | 3.10 | 1 3/8 X 1 3/4 |
| 520 | 420C521M350AA8 | 201.00 | 94.40 | 3.00 | 4.30 | 1 3/8 X 2 1/4 |
| 700 | 420C701M350AH8 | 140.00 | 66.20 | 3.60 | 5.30 | 1 3/8 X 2 3/4 |
| 880 | 420C881M350EA8 | 126.00 | 58.90 | 4.20 | 6.20 | 1 3/4 X 2 1/4 |
| 980 | 420C981M350AB8 | 107.00 | 51.40 | 4.50 | 6.50 | 1 3/8 X 3 1/4 |
| 1100 | 420C112M350BA8 | 111.00 | 53.00 | 4.90 | 7.10 | 2 X 2 1/4 |
| 1200 | 420C122M350EH8 | 92.20 | 42.50 | 5.30 | 7.80 | 1 3/4 X 2 3/4 |
| 1200 | 420C122M350AJ8 | 87.50 | 42.30 | 5.20 | 7.50 | 1 3/8 X 3 3/4 |
| 1400 | 420C142M350AC8 | 74.00 | 36.20 | 6.00 | 8.50 | 1 3/8 X 4 1/4 |
| 1500 | 420C152M350EB8 | 70.90 | 33.00 | 6.50 | 9.50 | 1 3/4 X 3 1/4 |
| 1500 | 420C152M350BH8 | 80.0 | 37.5 | 6.2 | 9.1 | 2 X 2 3/4 |
| 1700 | 420C172M350AD8 | 64.3 | 31.9 | 6.7 | 9.5 | 1 3/8 X 4 3/4 |
| 1900 | 420C192M350EJ8 | 57.7 | 27.1 | 7.5 | 10.9 | 1 3/4 X 3 3/4 |
| 1900 | 420C192M350EA8 | 57.0 | 28.7 | 7.4 | 10.5 | 1 3/8 X 5 1/4 |
| 2000 | 420C202M350BB8 | 61.6 | 29.1 | 7.5 | 10.9 | 2 X 3 1/4 |
| 2100 | 420C212M350AF8 | 51.3 | 26.2 | 8.2 | 11.5 | 1 3/8 X 5 3/4 |
| 2300 | 420C232M350EC8 | 50.9 | 24.2 | 8.4 | 12.2 | 1 3/4 X 4 1/4 |
| 2400 | 420C242M350BJ8 | 50.2 | 24.0 | 9.3 | 13.4 | 2 X 3 3/4 |
| 2600 | 420C262M350ED8 | 44.2 | 21.3 | 9.5 | 13.7 | 1 3/4 X 4 3/4 |
| 2800 | 420C282M350BC8 | 43.3 | 20.6 | 10.1 | 14.6 | 2 X 4 1/4 |
| 3000 | 420C302M350EE8 | 39.2 | 19.1 | 10.7 | 15.3 | 1 3/4 X 5 1/4 |
| 3300 | 420C332M350BD8 | 37.4 | 18.2 | 11.2 | 16.0 | 2 X 4 3/4 |
| 3400 | 420C342M350EF8 | 35.3 | 17.5 | 12.0 | 17.1 | 1 3/4 X 5 3/4 |
| 3900 | 420C392M350BE8 | 32.1 | 16.0 | 12.5 | 17.7 | 2 X 5 1/4 |
| 4300 | 420C432M350BF8 | 29.0 | 14.7 | 13.6 | 19.1 | 2 X 5 3/4 |
| 400 Vdc (450 Vdc Surge) | | | | | | |
| 290 | 420C291M400AK8 | 341.00 | 155.00 | 2.00 | 2.90 | 1 3/8 X 1 3/4 |
| 440 | 420C441M400AA8 | 228.00 | 104.00 | 2.80 | 4.10 | 1 3/8 X 2 1/4 |
| 600 | 420C601M400AH8 | 158.00 | 73.00 | 3.40 | 5.00 | 1 3/8 X 2 3/4 |
| 740 | 420C741M400EA8 | 141.00 | 63.90 | 4.00 | 5.90 | 1 3/4 X 2 1/4 |
| 830 | 420C831M400AB8 | 122.00 | 56.60 | 4.20 | 6.20 | 1 3/8 X 3 1/4 |
| 920 | 420C921M400BA8 | 124.00 | 56.80 | 4.60 | 6.90 | 2 X 2 1/4 |
| 1000 | 420C102M400EH8 | 104.00 | 46.20 | 5.00 | 7.50 | 1 3/4 X 2 3/4 |
| 1000 | 420C102M400AJ8 | 98.90 | 46.50 | 4.90 | 7.10 | 1 3/8 X 3 3/4 |
| 1200 | 420C122M400BH8 | 89.30 | 40.30 | 5.90 | 8.80 | 2 X 2 3/4 |
| 1200 | 420C122M400AC8 | 83.60 | 39.80 | 5.60 | 8.10 | 1 3/8 X 4 1/4 |
| 1300 | 420C132M400EB8 | 79.50 | 35.80 | 6.10 | 9.20 | 1 3/4 X 3 1/4 |
| 1400 | 420C142M400AD8 | 72.60 | 35.00 | 6.30 | 9.10 | 1 3/8 X 4 3/4 |
| 1600 | 420C162M400EA8 | 64.30 | 31.40 | 7.00 | 10.00 | 1 3/8 X 5 1/4 |
| 1600 | 420C162M400EJ8 | 64.70 | 29.40 | 7.00 | 10.40 | 1 3/4 X 3 3/4 |
| 1700 | 420C172M400BB8 | 68.60 | 31.30 | 7.10 | 10.50 | 2 X 3 1/4 |
| 1800 | 420C182M400AF8 | 57.80 | 28.70 | 7.80 | 11.00 | 1 3/8 X 5 3/4 |
| 1900 | 420C192M400EC8 | 57.00 | 26.20 | 7.90 | 11.70 | 1 3/4 X 4 1/4 |
| 2000 | 420C202M400BJ8 | 55.90 | 25.70 | 8.80 | 13.00 | 2 X 3 3/4 |

| Cap. (µF) | Catalog Part Number | ESR Max. 25 °C | | Ripple Amps, 85 °C | | Nominal Size D X L (in) |
|------------------------------------|------------------------|-------------------|----------------|-----------------------|---------------|-------------------------------|
| | | 120 Hz (µΩ) | 20 kHz (µΩ) | 120 Hz (A) | 20 kHz (A) | |
| 2200 | 420C222M400ED8 | 49.50 | 23.00 | 9.00 | 13.20 | 1 3/4 X 4 3/4 |
| 2400 | 420C242M400BC8 | 48.20 | 22.00 | 9.50 | 14.10 | 2 X 4 1/4 |
| 2500 | 420C252M400EE8 | 43.90 | 20.60 | 10.10 | 14.70 | 1 3/4 X 5 1/4 |
| 2800 | 420C282M400EF8 | 39.50 | 18.80 | 11.40 | 16.50 | 1 3/4 X 5 3/4 |
| 2800 | 420C282M400BD8 | 41.60 | 19.50 | 10.60 | 15.50 | 2 X 4 3/4 |
| 3300 | 420C332M400BE8 | 35.60 | 17.00 | 11.80 | 17.10 | 2 X 5 1/4 |
| 3700 | 420C372M400BF8 | 32.20 | 15.60 | 12.90 | 18.50 | 2 X 5 3/4 |
| 450 Volts (500 Volts Surge) | | | | | | |
| 220 | 420C221M450AK8 | 383.00 | 171.00 | 1.90 | 2.80 | 1 3/8 X 1 3/4 |
| 330 | 420C331M450AA8 | 256.00 | 115.00 | 2.60 | 3.90 | 1 3/8 X 2 1/4 |
| 500 | 420C501M450AH8 | 178.00 | 80.30 | 3.20 | 4.80 | 1 3/8 X 2 3/4 |
| 570 | 420C571M450EA8 | 157.00 | 69.10 | 3.80 | 5.70 | 1 3/4 X 2 1/4 |
| 630 | 420C631M450AB8 | 137.00 | 62.20 | 4.00 | 5.90 | 1 3/8 X 3 1/4 |
| 700 | 420C701M450BA8 | 138.00 | 60.90 | 4.40 | 6.60 | 2 X 2 1/4 |
| 760 | 420C761M450EH8 | 116.00 | 50.10 | 4.70 | 7.20 | 1 3/4 X 2 3/4 |
| 760 | 420C761M450AJ8 | 111.00 | 51.10 | 4.60 | 6.80 | 1 3/8 X 3 3/4 |
| 910 | 420C911M450AC8 | 93.80 | 43.60 | 5.30 | 7.80 | 1 3/8 X 4 1/4 |
| 940 | 420C941M450BH8 | 99.10 | 43.30 | 5.60 | 8.50 | 2 X 2 3/4 |
| 1000 | 420C102M450EB8 | 88.80 | 38.80 | 5.80 | 8.80 | 1 3/4 X 3 1/4 |
| 1100 | 420C112M450AD8 | 81.40 | 38.20 | 5.90 | 8.70 | 1 3/8 X 4 3/4 |
| 1200 | 420C122M450EJ8 | 72.20 | 31.80 | 6.70 | 10.00 | 1 3/4 X 3 3/4 |
| 1200 | 420C122M450AE8 | 72.00 | 34.30 | 6.60 | 9.60 | 1 3/8 X 5 1/4 |
| 1300 | 420C132M450AF8 | 64.70 | 31.20 | 7.30 | 10.60 | 1 3/8 X 5 3/4 |
| 1300 | 420C132M450BB8 | 76.10 | 33.50 | 6.70 | 10.10 | 2 X 3 1/4 |
| 1500 | 420C152M450EC8 | 63.50 | 28.30 | 7.50 | 11.30 | 1 3/4 X 4 1/4 |
| 1600 | 420C162M450BJ8 | 62.00 | 27.60 | 8.30 | 12.50 | 2 X 3 3/4 |
| 1700 | 420C172M450ED8 | 55.10 | 24.80 | 8.50 | 12.70 | 1 3/4 X 4 3/4 |
| 1800 | 420C182M450BC8 | 53.30 | 23.60 | 9.10 | 13.60 | 2 X 4 1/4 |
| 1900 | 420C192M450EE8 | 48.80 | 22.20 | 9.60 | 14.20 | 1 3/4 X 5 1/4 |
| 2100 | 420C212M450BD8 | 46.10 | 20.80 | 10.10 | 15.00 | 2 X 4 3/4 |
| 2200 | 420C222M450EF8 | 43.90 | 20.30 | 10.80 | 15.90 | 1 3/4 X 5 3/4 |
| 2500 | 420C252M450BE8 | 39.30 | 18.20 | 11.30 | 16.60 | 2 X 5 1/4 |
| 2800 | 420C282M450BF8 | 35.50 | 16.60 | 12.30 | 17.90 | 2 X 5 3/4 |
| 500 Vdc (550 Vdc Surge) | | | | | | |
| 160 | 420C161M500AK8 | 416.00 | 151.00 | 1.80 | 3.00 | 1 3/8 X 1 3/4 |
| 240 | 420C241M500AA8 | 278.00 | 101.00 | 2.50 | 4.20 | 1 3/8 X 2 1/4 |
| 350 | 420C351M500AH8 | 193.00 | 70.50 | 3.10 | 5.10 | 1 3/8 X 2 3/4 |
| 370 | 420C371M500EA8 | 248.00 | 140.00 | 3.50 | 5.60 | 1 3/4 X 2 1/4 |
| 460 | 420C461M500AB8 | 148.00 | 54.50 | 3.80 | 6.30 | 1 3/8 X 3 1/4 |
| 480 | 420C481M500BA8 | 197.00 | 118.00 | 4.10 | 6.50 | 2 X 2 1/4 |
| 540 | 420C541M500EH8 | 172.00 | 97.80 | 4.50 | 7.20 | 1 3/4 X 2 3/4 |
| 570 | 420C571M500AJ8 | 121.00 | 44.60 | 4.40 | 7.30 | 1 3/8 X 3 3/4 |
| 670 | 420C671M500BH8 | 137.00 | 82.30 | 5.40 | 8.30 | 2 X 2 3/4 |
| 670 | 420C671M500AC8 | 137.00 | 79.30 | 5.10 | 8.30 | 1 3/8 X 4 1/4 |
| 710 | 420C711M500EB8 | 132.00 | 75.50 | 5.50 | 8.80 | 1 3/4 X 3 1/4 |
| 750 | 420C751M500AD8 | 88.40 | 33.30 | 5.70 | 9.30 | 1 3/8 X 4 3/4 |
| 880 | 420C881M500EJ8 | 108.00 | 61.90 | 6.40 | 10.10 | 1 3/4 X 3 3/4 |
| 890 | 420C891M500BB8 | 105.00 | 63.70 | 6.40 | 10.00 | 2 X 3 1/4 |
| 890 | 420C891M500AE8 | 78.20 | 29.70 | 6.30 | 10.30 | 1 3/8 X 5 1/4 |
| 1000 | 420C102M500EC8 | 90.90 | 52.70 | 7.20 | 11.40 | 1 3/4 X 4 1/4 |
| 1000 | 420C102M500AF8 | 70.30 | 27.00 | 7.00 | 11.40 | 1 3/8 X 5 3/4 |
| 1100 | 420C112M500BJ8 | 85.80 | 52.20 | 8.00 | 12.30 | 2 X 3 3/4 |
| 1200 | 420C122M500ED8 | 78.90 | 46.10 | 8.10 | 12.80 | 1 3/4 X 4 3/4 |
| 1300 | 420C132M500BC8 | 72.60 | 44.60 | 8.70 | 13.40 | 2 X 4 1/4 |
| 1400 | 420C142M500EE8 | 69.90 | 41.30 | 9.10 | 14.30 | 1 3/4 X 5 1/4 |
| 1500 | 420C152M500EF8 | 62.90 | 37.50 | 10.30 | 16.10 | 1 3/4 X 5 3/4 |
| 1500 | 420C152M500BD8 | 63.10 | 39.10 | 9.70 | 14.80 | 2 X 4 3/4 |
| 1800 | 420C182M500BE8 | 54.50 | 34.20 | 10.80 | 16.40 | 2 X 5 1/4 |
| 2000 | 420C202M500BF8 | 49.20 | 31.30 | 11.70 | 17.80 | 2 X 5 3/4 |