

CKH/CKE



Aluminum Electrolytic Capacitors

+105°C General Purpose, Radial Lead

FEATURES

Small Size - High Voltage - General Purpose

APPLICATIONS

Bypass - Coupling - Filter - De-coupling

| | | | | | | | | | | | | | | | | |
|---|-----------------------|--|-------------------------|----------------------------------|------------|------------|-----------|------------|------------------------|-------------------------|------------|------------|------------|------------|------------|--|
| Operating Temperature Range | | -40°C to +105°C (6.3 to 100 WVDC) -25°C to +105°C (160 to 400 WVDC) | | | | | | | | | | | | | | |
| Capacitance Tolerance | | ±20% at 120 Hz, 20°C | | | | | | | | | | | | | | |
| Surge Voltage | WVDC | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | |
| | SVDC | 7.9 | 13 | 20 | 32 | 44 | 63 | 79 | 125 | 200 | 250 | 300 | 400 | 450 | 500 | |
| Dissipation Factor | WVDC | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | |
| | Tan δ | .22 | .19 | .16 | .14 | .12 | .1 | .09 | .08 | .15 | .15 | .15 | .2 | .2 | .2 | |
| | | Add .02 for every 1000uF above 1000uF | | | | | | | | | | | | | | |
| Leakage Current | | 6.3 to 100 WVDC | | | | | | | 160 to 450 WVDC | | | | | | | |
| | | 2 Minutes | | | | | | | 2 Minutes | | | | | | | |
| | | .01CV or 3uA, Whichever is greater | | | | | | | .03CV+40uA | | | | | | | |
| Low temperature Stability Impedance Ratio (120 Hz) | WVDC | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | |
| | -25°C to +20°C | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 6 | 6 | 7 | |
| | -40°C to +20°C | 8 | 6 | 4 | 3 | 3 | 3 | 3 | 3 | - | - | - | - | - | - | |
| Load Life | | 2000 hours at 105°C with rated WVDC and ripple current applied | | | | | | | | | | | | | | |
| | | Capacitance Change | | ≤20% of initial measured value | | | | | | | | | | | | |
| | | Dissipation Factor | | ≤200% of maximum specified value | | | | | | | | | | | | |
| | | Leakage Current | | ≤100% of maximum specified value | | | | | | | | | | | | |
| Shelf Life | | 1000 hours at 105°C with no voltage applied | | | | | | | | | | | | | | |
| | | Capacitance Change | | ≤20% of initial measured value | | | | | | | | | | | | |
| | | Dissipation Factor | | ≤200% of maximum specified value | | | | | | | | | | | | |
| | | Leakage Current | | ≤100% of maximum specified value | | | | | | | | | | | | |
| Ripple Current Multipliers | | | | Frequency (Hz) | | | | | | Temperature (°C) | | | | | | |
| | | WVDC | Capacitance (uF) | 50 | 120 | 300 | 1k | 10k | 100k | 105 | 85 | 70 | 65 | 45 | | |
| | | 6.3 to 100V | <47 | .75 | 1.0 | 1.36 | 1.57 | 2.0 | 2.3 | 1 | 1.75 | 1.9 | 2 | 2.23 | | |
| | | | 68 to 470 | .8 | 1.0 | 1.23 | 1.34 | 1.5 | 1.65 | 1 | 1.75 | 1.9 | 2 | 2.23 | | |
| | | | ≥560 | .85 | 1.0 | 1.1 | 1.13 | 1.15 | 1.4 | 1 | 1.75 | 1.9 | 2 | 2.23 | | |
| | | 160 to 450V | .47 to 4.7 | .65 | 1.0 | 1.35 | 1.75 | 2.3 | 2.5 | 1 | 1.75 | 1.9 | 2 | 2.23 | | |
| | | | 6.8 to 82 | .75 | 1.0 | 1.25 | 1.5 | 1.75 | 1.8 | 1 | 1.75 | 1.9 | 2 | 2.23 | | |
| 100 to 1000 | .8 | | 1.0 | 1.15 | 1.3 | 1.4 | 1.5 | 1 | 1.75 | 1.9 | 2 | 2.23 | | | | |



| | | | | | | | |
|----------|----------|------------|----------|-----------|-------------|-----------|-----------|
| D | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 |
| S | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| d | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 |

L₁=L+1.5mm Max.
D₁=D+0.5mm Max.
S₁=S+0.5 mm



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| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (Ω) 120 Hz, +20°C | Maximum RMS Ripple Current (mA) 120 Hz, +105°C | Dims DxDL (mm) |
|------------------|------|----------------|-------------------------------|--|----------------|
| 0.47 | 100 | 474CKH100M | 282.19 | 12 | 5x11 |
| 1 | 50 | 105CKH050M | 165.79 | 13 | 5x11 |
| 1 | 100 | 105CKE100M | 165.79 | 15 | 5x11 |
| 1 | 250 | 105CKE250M | 248.68 | 16 | 6.3x11 |
| 1 | 400 | 105CKE400M | 331.57 | 21 | 8x11.5 |
| 1 | 450 | 105CKE450M | 331.57 | 22 | 10x12.5 |
| 1 | 450 | 105CKE450MEBB | 331.573 | 18 | 6.3x11 |
| 2.2 | 50 | 225CKH050M | 75.358 | 20 | 5x11 |
| 2.2 | 100 | 225CKE100M | 753.575 | 35 | 5x11 |
| 2.2 | 250 | 225CKH250M | 113.036 | 29 | 6.3x11 |
| 2.2 | 350 | 225CKE350M | 150.71 | 30 | 6.3x11 |
| 2.2 | 400 | 225CKE400M | 150.71 | 26 | 8x11.5 |
| 2.2 | 450 | 225CKE450M | 150.71 | 31 | 10x12.5 |
| 2.2 | 450 | 225CKE450MJM | 150.71 | 30 | 8x11.5 |
| 3.3 | 50 | 335CKE050M | 50.238 | 35 | 5x11 |
| 3.3 | 100 | 335CKE100M | 40.19 | 35 | 5x11 |
| 3.3 | 200 | 335CKE200M | 75.358 | 35 | 6.3x11 |
| 3.3 | 250 | 335CKE250M | 75.358 | 44 | 8x11.5 |
| 3.3 | 250 | 335CKE250MGGM | 75.358 | 37 | 6.3x11 |
| 3.3 | 350 | 335CKE350MJM | 100.477 | 30 | 8x11.5 |
| 3.3 | 400 | 335CKE400MJM | 100.477 | 42 | 8x11.5 |
| 3.3 | 400 | 335CKE400M | 100.477 | 41 | 10x12.5 |
| 3.3 | 450 | 335CKE450MFH | 100.477 | 40 | 8x11.5 |
| 3.3 | 450 | 335CKE450MGJG | 100.477 | 44 | 10x20 |
| 4.7 | 100 | 475CKE100M | 35.274 | 40 | 5x11 |
| 4.7 | 160 | 475CKE160M | 52.911 | 51 | 6.3x11 |
| 4.7 | 200 | 475CKE200M | 52.911 | 53 | 6.3x11 |
| 4.7 | 250 | 475CKE250M | 52.911 | 53 | 8x11.5 |
| 4.7 | 250 | 475CKH250M | 52.911 | 60 | 10x12.5 |
| 4.7 | 350 | 475CKE350M | 70.547 | 47 | 10x12.5 |
| 4.7 | 400 | 475CKE400M | 70.547 | 55 | 10x16 |
| 4.7 | 400 | 475CKE400MFH | 70.5474 | 56 | 8x11.5 |
| 4.7 | 450 | 475CKE450MLN | 70.547 | 32 | 10x12.5 |
| 4.7 | 450 | 475CKE450M | 70.547 | 43 | 10x20 |
| 6.8 | 50 | 685CKH050M | 24.381 | 40 | 5x11 |
| 6.8 | 450 | 685CKE450MGBW | 48.7607 | 90 | 10x16 |
| 10 | 50 | 106CKH050M | 16.579 | 55 | 5x11 |
| 10 | 63 | 106CKE063M | 16.579 | 60 | 5x11 |
| 10 | 100 | 106CKH100M | 16.579 | 85 | 6.3x11 |
| 10 | 160 | 106CKE160M | 24.868 | 91 | 8x11.5 |
| 10 | 200 | 106CKE200M | 24.868 | 75 | 10x12.5 |
| 10 | 200 | 106CKE200MJM | 24.868 | 91 | 8x11.5 |
| 10 | 250 | 106CKH250M | 24.868 | 90 | 10x16 |
| 10 | 350 | 106CKE350M | 24.868 | 85 | 10x20 |
| 10 | 350 | 106CKE350MLQ | 33.157 | 64 | 10x16 |
| 10 | 400 | 106CKE400MLQ | 33.157 | 64 | 10x16 |
| 10 | 400 | 106CKE400M | 33.157 | 73 | 10x20 |
| 10 | 450 | 106CKE450M | 33.157 | 75 | 12.5x20 |
| 10 | 450 | 106CKE450MLU | 33.157 | 120 | 10x20 |
| 15 | 50 | 156CKH050M | 11.052 | 58 | 5x11 |
| 15 | 250 | 156CKE250MGBW | 22.1049 | 112 | 10x16 |
| 15 | 400 | 156CKE400MGJG | 22.1049 | 150 | 10x20 |
| 15 | 450 | 156CKE450MTJG | 22.1049 | 112 | 12.5x20 |
| 22 | 50 | 226CKH050M | 7.536 | 80 | 5x11 |
| 22 | 63 | 226CKH063M | 7.536 | 90 | 6.3x11 |
| 22 | 63 | 226CKE063M | 7.536 | 80 | 5x11 |
| 22 | 100 | 226CKE100M | 7.536 | 95 | 6.3x11 |
| 22 | 100 | 226CKH100M | 7.536 | 150 | 8x11.5 |

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (Ω) 120 Hz, +20°C | Maximum RMS Ripple Current (mA) 120 Hz, +105°C | Dims DxDL (mm) |
|------------------|------|----------------|-------------------------------|--|----------------|
| 22 | 160 | 226CKE160MLN | 11.304 | 150 | 10x12.5 |
| 22 | 200 | 226CKE200MLQ | 11.304 | 165 | 10x16 |
| 22 | 250 | 226CKE250MLU | 11.304 | 180 | 10x20 |
| 22 | 350 | 226CKE350MNU | 15.072 | 105 | 12.5x20 |
| 22 | 450 | 226CKE450MNV | 15.0715 | 215 | 12.5x25 |
| 33 | 50 | 336CKE050M | 5.024 | 100 | 5x11 |
| 33 | 63 | 336CKE063M | 5.024 | 120 | 6.3x11 |
| 33 | 100 | 336CKE100M | 5.024 | 145 | 8x11.5 |
| 33 | 100 | 336CKH100M | 5.0238 | 260 | 10x12.5 |
| 33 | 160 | 336CKE160MLQ | 7.536 | 205 | 10x16 |
| 33 | 200 | 336CKE200MLU | 7.536 | 225 | 10x20 |
| 33 | 250 | 336CKE250M | 7.536 | 190 | 12.5x20 |
| 33 | 350 | 336CKE350MNV | 10.048 | 270 | 12.5x25 |
| 33 | 400 | 336CKE400M | 10.048 | 160 | 16x25 |
| 33 | 450 | 336CKE450MQV | 10.048 | 120 | 16x25 |
| 47 | 25 | 476CKH025M | 4.9383 | 100 | 5x11 |
| 47 | 35 | 476CKE035M | 4.233 | 92 | 5x11 |
| 47 | 50 | 476CKE050M | 3.527 | 135 | 6.3x11 |
| 47 | 63 | 476CKE063M | 3.527 | 145 | 6.3x11 |
| 47 | 63 | 476CKH063M | 3.527 | 155 | 8x11.5 |
| 47 | 100 | 476CKH100M | 3.527 | 280 | 10x16 |
| 47 | 100 | 476CKE100M | 3.527 | 280 | 10x12.5 |
| 47 | 160 | 476CKE160MLU | 5.291 | 270 | 10x20 |
| 47 | 200 | 476CKE200M | 5.291 | 210 | 12.5x20 |
| 47 | 250 | 476CKE250M | 5.291 | 320 | 12.5x25 |
| 47 | 250 | 476CKE250MNU | 5.291 | 190 | 13x21 |
| 47 | 350 | 476CKE350M | 7.055 | 190 | 16x25 |
| 47 | 400 | 476CKE400M | 7.055 | 210 | 16x30 |
| 47 | 400 | 476CKE400MQV | 7.055 | 360 | 16x25 |
| 47 | 450 | 476CKE450MQW | 7.055 | 395 | 16x30 |
| 68 | 50 | 686CKH050M | 2.438 | 165 | 8x11.5 |
| 68 | 63 | 686CKH063M | 2.438 | 190 | 10x12.5 |
| 68 | 100 | 686CKH100M | 2.438 | 300 | 10x16 |
| 68 | 160 | 686CKE160MTJG | 4.8761 | 350 | 12.5x20 |
| 68 | 200 | 686CKE200MTJD | 4.8761 | 380 | 12.5x25 |
| 68 | 250 | 686CKE250MKJG | 4.8761 | 400 | 16x20 |
| 68 | 400 | 686CKE400MKAG | 4.8761 | 475 | 16x30 |
| 68 | 450 | 686CKE450MKAD | 4.8761 | 510 | 16x35 |
| 100 | 25 | 107CKE025MEM | 2.321 | 125 | 5x11 |
| 100 | 35 | 107CKE035M | 1.989 | 170 | 6.3x11 |
| 100 | 50 | 107CKH050M | 1.658 | 230 | 8x11.5 |
| 100 | 63 | 107CKH063M | 1.658 | 260 | 10x12.5 |
| 100 | 100 | 107CKE100MLQ | 1.658 | 240 | 10x16 |
| 100 | 160 | 107CKE160M | 2.487 | 470 | 12.5x25 |
| 100 | 250 | 107CKE250MQV | 2.487 | 530 | 16x25 |
| 100 | 350 | 107CKE350MKCG | 3.3157 | 510 | 16x40 |
| 100 | 350 | 107CKE350M | 3.316 | 410 | 18x40 |
| 100 | 400 | 107CKE400M | 3.316 | 310 | 18x35 |
| 150 | 100 | 157CKH100M | 1.105 | 410 | 12.5x20 |
| 150 | 160 | 157CKE160MKJD | 1.65786 | 515 | 16x25 |
| 150 | 200 | 157CKE200MKJD | 1.65786 | 660 | 16x25 |
| 150 | 250 | 157CKE250MKAD | 1.65786 | 750 | 16x35 |
| 150 | 450 | 157CKE450MLCD | 2.2105 | 880 | 18x45 |
| 220 | 10 | 227CKE010M | 1.6579 | 170 | 5x11 |
| 220 | 16 | 227CKE016M | 1.2057 | 215 | 6.3x11 |
| 220 | 25 | 227CKE025MGM | 1.055 | 200 | 6.3x11 |
| 220 | 35 | 227CKE035M | 0.904 | 295 | 8x11.5 |
| 220 | 50 | 227CKE050M | 0.754 | 350 | 10x12.5 |

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (Ω) 120 Hz, +20°C | Maximum RMS Ripple Current (mA) 120 Hz, +105°C | Dims DxD (mm) |
|------------------|------|----------------|-------------------------------|--|---------------|
| 220 | 50 | 227CKH050M | 0.7536 | 510 | 10x16 |
| 220 | 63 | 227CKH063M | 0.7536 | 505 | 10x20 |
| 220 | 63 | 227CKE063M | 0.754 | 390 | 10x16 |
| 220 | 100 | 227CKE100M | 0.754 | 660 | 12.5x25 |
| 220 | 100 | 227CKH100M | 0.7536 | 960 | 16x25 |
| 220 | 100 | 227CKE100MNU | 0.754 | 390 | 12.5x20 |
| 220 | 160 | 227CKE160MQW | 1.13 | 860 | 16x30 |
| 220 | 200 | 227CKE200M | 1.13 | 920 | 16x35 |
| 220 | 250 | 227CKE250MLCG | 1.5071 | 1010 | 18x40 |
| 220 | 250 | 227CKE250M | 1.13 | 485 | 18x35 |
| 330 | 10 | 337CKE010M | 1.1052 | 240 | 6.3x11 |
| 330 | 16 | 337CKE016MGM | 0.8038 | 225 | 6.3x11 |
| 330 | 25 | 337CKE025M | 0.4938 | 340 | 8x11.5 |
| 330 | 35 | 337CKE035M | 0.603 | 420 | 10x12.5 |
| 330 | 50 | 337CKE050M | 0.502 | 590 | 10x16 |
| 330 | 50 | 337CKH050M | 0.502 | 490 | 10x20 |
| 330 | 63 | 337CKH063M | 0.502 | 690 | 12.5x20 |
| 330 | 100 | 337CKH100M | 0.502 | 1000 | 16x25 |
| 330 | 100 | 337CKE100M | 0.502 | 800 | 12.5x25 |
| 330 | 160 | 337CKE160MKCG | 1.0048 | 1200 | 16x40 |
| 330 | 200 | 337CKE200M | 0.754 | 675 | 18x40 |
| 470 | 10 | 477CKE010M | 0.776 | 285 | 6.3x11 |
| 470 | 16 | 477CKE016M | 0.5644 | 365 | 8x11.5 |
| 470 | 16 | 477CKH016M | 0.5644 | 440 | 10x12.5 |
| 470 | 25 | 477CKE025M | 0.4938 | 470 | 10x12.5 |
| 470 | 35 | 477CKE035M | 0.423 | 545 | 10x16 |
| 470 | 50 | 477CKE050M | 0.353 | 705 | 10x20 |
| 470 | 50 | 477CKH050M | 0.353 | 630 | 12.5x20 |
| 470 | 63 | 477CKH063M | 0.353 | 690 | 12.5x25 |
| 470 | 63 | 477CKE063M | 0.353 | 810 | 12.5x20 |
| 470 | 100 | 477CKE100M | 0.353 | 1050 | 16x25 |
| 680 | 6.3 | 687CKH6R3M | 0.0585 | 375 | 10x12.5 |
| 680 | 16 | 687CKH016M | 0.3901 | 490 | 10x16 |
| 680 | 35 | 687CKE035MGJG | 0.2926 | 680 | 10x20 |
| 680 | 50 | 687CKE050MTJG | 0.2438 | 925 | 12.5x20 |
| 680 | 63 | 687CKH063M | 0.244 | 925 | 16x25 |
| 1000 | 6.3 | 108CKE6R3M | 0.3979 | 445 | 8x11.5 |
| 1000 | 10 | 108CKE010M | 0.3647 | 570 | 10x12.5 |
| 1000 | 16 | 108CKE016M | 0.2653 | 680 | 10x16 |
| 1000 | 16 | 108CKE016MLN | 0.2653 | 500 | 10x12.5 |
| 1000 | 16 | 108CKH016M | 0.2653 | 720 | 10x20 |
| 1000 | 25 | 108CKE025MLQ | 0.2321 | 610 | 10x16 |
| 1000 | 25 | 108CKE025M | 0.2321 | 820 | 10x20 |
| 1000 | 35 | 108CKH035M | 0.199 | 1025 | 12.5x20 |
| 1000 | 50 | 108CKH050M | 0.166 | 1010 | 16x25 |
| 1000 | 50 | 108CKE050M | 0.166 | 1285 | 12.5x25 |
| 1000 | 63 | 108CKE063M | 0.166 | 1450 | 16x25 |
| 1000 | 100 | 108CKE100M | 0.166 | 2020 | 18x40 |
| 1000 | 100 | 108CKE100MRY | 0.166 | 1000 | 18x35 |
| 1500 | 6.3 | 158CKH6R3M | 0.2874 | 585 | 10x20 |
| 1500 | 16 | 158CKH016M | 0.1989 | 800 | 12.5x20 |
| 1500 | 25 | 158CKH025M | 0.1768 | 905 | 12.5x25 |
| 1500 | 35 | 158CKH035M | 0.1547 | 1140 | 16x25 |

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (Ω) 120 Hz, +20°C | Maximum RMS Ripple Current (mA) 120 Hz, +105°C | Dims DxD (mm) |
|------------------|------|----------------|-------------------------------|--|---------------|
| 1500 | 35 | 158CKE035MTJD | 0.1326 | 1125 | 12.5x25 |
| 1500 | 50 | 158CKH050M | 0.1326 | 1250 | 18x30 |
| 2200 | 6.3 | 228CKE6R3M | 0.211 | 740 | 10x16 |
| 2200 | 10 | 228CKE010MLQ | 0.1959 | 705 | 10x16 |
| 2200 | 10 | 228CKE010M | 0.1959 | 900 | 10x20 |
| 2200 | 16 | 228CKE016M | 0.1507 | 1110 | 12.5x20 |
| 2200 | 16 | 228CKH016M | 0.1507 | 1250 | 12.5x25 |
| 2200 | 16 | 228CKE016MLU | 0.1507 | 710 | 10x20 |
| 2200 | 25 | 228CKH025M | 0.1356 | 1210 | 16x25 |
| 2200 | 25 | 228CKE025M | 0.1356 | 1175 | 12.5x25 |
| 2200 | 35 | 228CKE035M | 0.1206 | 1500 | 16x25 |
| 2200 | 35 | 228CKH035M | 0.121 | 1730 | 16x30 |
| 2200 | 50 | 228CKH050M | 0.106 | 1700 | 18x35 |
| 2200 | 50 | 228CKE050MQW | 0.1055 | 1410 | 16x30 |
| 2200 | 50 | 228CKE050M | 0.1055 | 1885 | 16x35 |
| 3300 | 6.3 | 338CKE6R3M | 0.1507 | 1030 | 10x20 |
| 3300 | 10 | 338CKE010M | 0.1407 | 1205 | 12.5x20 |
| 3300 | 16 | 338CKE016M | 0.1105 | 1390 | 12.5x25 |
| 3300 | 25 | 338CKE025M | 0.1005 | 1645 | 16x25 |
| 3300 | 25 | 338CKH025M | 0.1005 | 1800 | 16x30 |
| 3300 | 35 | 338CKE035MQW | 0.0905 | 1810 | 16x30 |
| 3300 | 35 | 338CKE035M | 0.0905 | 1820 | 16x35 |
| 3300 | 50 | 338CKE050M | 0.0804 | 2165 | 18x35 |
| 4700 | 10 | 478CKE010M | 0.1058 | 1490 | 12.5x25 |
| 4700 | 10 | 478CKH010M | 0.1058 | 1350 | 16x25 |
| 4700 | 16 | 478CKH016M | 0.0847 | 1560 | 16x30 |
| 4700 | 16 | 478CKE016M | 0.0847 | 1740 | 16x25 |
| 4700 | 25 | 478CKE025M | 0.0776 | 2010 | 16x30 |
| 4700 | 25 | 478CKE025MQV | 0.0776 | 1570 | 16x25 |
| 4700 | 35 | 478CKE035MQY | 0.0706 | 1780 | 16x35 |
| 4700 | 35 | 478CKE035M | 0.0706 | 2335 | 18x35 |
| 6800 | 6.3 | 688CKE6R3M | 0.08777 | 1555 | 12.5x25 |
| 6800 | 10 | 688CKE010M | 0.0756 | 1825 | 16x25 |
| 6800 | 16 | 688CKE016M | 0.0707 | 2080 | 16x30 |
| 6800 | 16 | 688CKE016MQV | 0.0707 | 1600 | 16x25 |
| 6800 | 25 | 688CKE025MQY | 0.0634 | 2308 | 16x35 |
| 6800 | 25 | 688CKE025M | 0.0634 | 2170 | 18x35 |
| 6800 | 35 | 688CKE035M | 0.0585 | 2400 | 18x40 |
| 10000 | 6.3 | 109CKE6R3M | 0.06963 | 1900 | 16x25 |
| 10000 | 6.3 | 109CKH6R3M | 0.06963 | 1730 | 16x30 |
| 10000 | 10 | 109CKH010M | 0.0663 | 2030 | 18x35 |
| 10000 | 10 | 109CKE010MQW | 0.0663 | 1980 | 16x30 |
| 10000 | 16 | 109CKE016M | 0.0564 | 2380 | 16x35 |
| 10000 | 25 | 109CKE025MLAD | 0.0547 | 2500 | 18x35 |
| 10000 | 25 | 109CKE025M | 0.0531 | 2000 | 18x40 |
| 15000 | 6.3 | 159CKE6R3MQW | 0.05747 | 1820 | 16x30 |
| 15000 | 6.3 | 159CKE6R3M | 0.05747 | 2140 | 16x35 |
| 15000 | 10 | 159CKE010MQY | 0.0553 | 2050 | 16x35 |
| 15000 | 10 | 159CKE010M | 0.0553 | 2370 | 18x35 |
| 15000 | 16 | 159CKE016M | 0.0486 | 2210 | 18x40 |
| 22000 | 6.3 | 229CKE6R3MRY | 0.04979 | 2400 | 18x35 |
| 22000 | 10 | 229CKE010M | 0.0482 | 2410 | 18x40 |