

# CKR/CKS



## Radial Lead Aluminum Electrolytic Capacitors

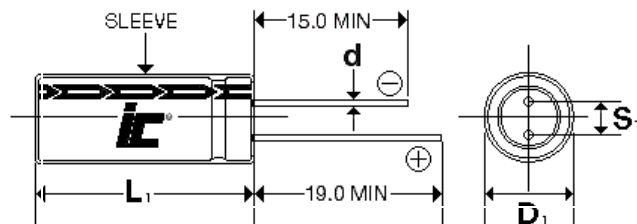
### FEATURES

Small Size - High Voltage - General Purpose

### APPLICATIONS

Bypass - Coupling - Filtering - De-coupling

|   |                       |  |                                  |      |     |      |      |      |                       |                        |     |     |     |                         |     |     |  |  |
|---|-----------------------|--|----------------------------------|------|-----|------|------|------|-----------------------|------------------------|-----|-----|-----|-------------------------|-----|-----|--|--|
| <b>Operating Temperature Range</b>                        |                       | <b>-40°C to +85°C (6.3 to 100 WVDC)<br/>-25°C to +85°C (160 to 500 WVDC)</b> |                                  |      |     |      |      |      |                       |                        |     |     |     |                         |     |     |  |  |
| <b>Capacitance Tolerance</b>                              |                       | <b>±20% at 120 Hz, 20°C</b>  |                                  |      |     |      |      |      |                       |                        |     |     |     |                         |     |     |  |  |
| <b>Surge Voltage</b>                                      | <b>WVDC</b>           | 6.3  | 10                               | 16   | 25  | 35   | 50   | 63   | 100                   | 160                    | 200 | 250 | 350 | 400                     | 450 | 500 |  |  |
|   | <b>SVDC</b>           | 7.9  | 13                               | 20   | 32  | 44   | 63   | 79   | 125                   | 200                    | 250 | 300 | 400 | 450                     | 500 | 550 |  |  |
| <b>Dissipation Factor</b>                                 | <b>WVDC</b>           | 6.3  | 10                               | 16   | 25  | 35   | 50   | 63   | 100                   | 160                    | 200 | 250 | 350 | 400                     | 450 | 500 |  |  |
|   | <b>Tan δ</b>          | .24  | 0.2                              | .16  | .14 | .12  | .1   | .1   | .08                   | .2                     | .2  | .2  | .2  | .2                      | .2  | .24 |  |  |
|   |                       | Add .02 for every 1000uF above 1000uF  |                                  |      |     |      |      |      |                       |                        |     |     |     |                         |     |     |  |  |
| <b>Leakage Current</b>                                    |                       | <b>6.3 to 100 WVDC</b>   |                                  |      |     |      |      |      |                       | <b>160 to 500 WVDC</b> |     |     |     |                         |     |     |  |  |
|   |                       | <b>2 Minutes</b>   |                                  |      |     |      |      |      |                       | <b>2 Minutes</b>       |     |     |     |                         |     |     |  |  |
|   |                       | .01CV or 3uA,<br>Whichever is greater  |                                  |      |     |      |      |      |                       | .03CV+10uA             |     |     |     |                         |     |     |  |  |
| <b>Low Temperature Stability Impedance Ratio (120 Hz)</b> | <b>WVDC</b>           | 6.3  | 10                               | 16   | 25  | 35   | 50   | 63   | 100                   | 160                    | 200 | 250 | 350 | 400                     | 450 | 500 |  |  |
|   | <b>-25°C to +20°C</b> | 5  | 4                                | 3    | 2   | 2    | 2    | 2    | 2                     | 3                      | 3   | 4   | 6   | 7                       | 7   | 8   |  |  |
|   | <b>-40°C to +20°C</b> | 10   | 8                                | 6    | 5   | 3    | 3    | 3    | 3                     | -                      | -   | -   | -   | -                       | -   | -   |  |  |
| <b>Load Life</b>  |                       | <b>2000 hours at 85°C with rated WVDC and ripple current applied</b>         |                                  |      |     |      |      |      |                       |                        |     |     |     |                         |     |     |  |  |
|   |                       | <b>Capacitance Change</b>  | ≤20% of initial measured value   |      |     |      |      |      |                       |                        |     |     |     |                         |     |     |  |  |
|   |                       | <b>Dissipation Factor</b>  | ≤200% of maximum specified value |      |     |      |      |      |                       |                        |     |     |     |                         |     |     |  |  |
|   |                       | <b>Leakage Current</b>   | ≤100% of maximum specified value |      |     |      |      |      |                       |                        |     |     |     |                         |     |     |  |  |
| <b>Shelf Life</b>   |                       | <b>1000 hours at 85°C with no voltage applied</b>                            |                                  |      |     |      |      |      |                       |                        |     |     |     |                         |     |     |  |  |
|   |                       | <b>Capacitance Change</b>  | ≤20% initial measured value      |      |     |      |      |      |                       |                        |     |     |     |                         |     |     |  |  |
|   |                       | <b>Dissipation Factor</b>  | ≤200% of maximum specified value |      |     |      |      |      |                       |                        |     |     |     |                         |     |     |  |  |
|   |                       | <b>Leakage Current</b>   | ≤100% of maximum specified value |      |     |      |      |      |                       |                        |     |     |     |                         |     |     |  |  |
| <b>Ripple Current Multipliers</b>                         |                       | <b>WVDC</b>  | <b>Capacitance (uF)</b>          |      |     |      |      |      | <b>Frequency (Hz)</b> |                        |     |     |     | <b>Temperature (°C)</b> |     |     |  |  |
|   |                       | <b>6.3 to 100V</b>   | 47                               | 0.75 | 1.0 | 1.35 | 1.57 | 2    | 2.3                   | 1.0                    | 1.4 | 1.6 | 1.7 | 1.8                     |     |     |  |  |
|   |                       |  | 68 to 470                        | 0.8  | 1.0 | 1.23 | 1.34 | 1.5  | 1.65                  | 1.0                    | 1.4 | 1.6 | 1.7 | 1.8                     |     |     |  |  |
|   |                       |  | ≥560                             | 0.85 | 1.0 | 1.1  | 1.13 | 1.15 | 1.4                   | 1.0                    | 1.4 | 1.6 | 1.7 | 1.8                     |     |     |  |  |
|   |                       | <b>160 to 450V</b>   | .47 to 4.7                       | 0.65 | 1.0 | 1.35 | 1.75 | 2.3  | 2.5                   | 1.0                    | 1.4 | 1.6 | 1.7 | 1.8                     |     |     |  |  |
|   |                       |  | 6.8 to 82                        | 0.75 | 1.0 | 1.25 | 1.5  | 1.75 | 1.8                   | 1.0                    | 1.4 | 1.6 | 1.7 | 1.8                     |     |     |  |  |
|   |                       |  | 100 to 1000                      | 0.8  | 1.0 | 1.15 | 1.3  | 1.4  | 1.5                   | 1.0                    | 1.4 | 1.6 | 1.7 | 1.8                     |     |     |  |  |



|   |     |     |     |     |      |     |     |
|---|-----|-----|-----|-----|------|-----|-----|
| 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 |

L<sub>1</sub>=L+1.5mm Max.  
D<sub>1</sub>=D+0.5mm Max.  
S<sub>1</sub>=S+0.5 mm

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# CKR\_CKS

+85°C, Standard, 2000 Hour

| WVDC | Capacitance (µF) | IC PART NUMBER | Maximum ESR (Ω) 120 Hz, +20°C | Maximum RMS Ripple Current (mA) 120 Hz, +85°C | Dims DxDL (mm) |
|------|------------------|----------------|-------------------------------|---|----------------|
| 6.3  | 1000             | 108CKS6R3M     | 0.365                         | 610   | 8x11.5         |
| 6.3  | 2200             | 228CKS6R3M     | 0.211                         | 900   | 10x16          |
| 6.3  | 3300             | 338CKS6R3M     | 0.1507                        | 1350  | 10x20          |
| 6.3  | 4700             | 478CKS6R3M     | 0.1129                        | 1830  | 12.5x20        |
| 6.3  | 6800             | 688CKS6R3M     | 0.083                         | 1930  | 12.5x25        |
| 6.3  | 10000            | 109CKS6R3M     | 0.0696                        | 2760  | 16x25          |
| 6.3  | 15000            | 159CKS6R3M     | 0.0531                        | 2860  | 16x35          |
| 6.3  | 22000            | 229CKS6R3MRY   | 0.0497                        | 3200  | 18x35          |
| 6.3  | 22000            | 229CKS6R3M     | 0.0497                        | 3400  | 18x40          |
| 10   | 220              | 227CKS010M     | 1.507                         | 230   | 5x11           |
| 10   | 330              | 337CKS010M     | 1.005                         | 325   | 6.3x11         |
| 10   | 470              | 477CKS010M     | 0.67                          | 385   | 6.3x11         |
| 10   | 1000             | 108CKS010M     | 0.315                         | 795   | 10x12.5        |
| 10   | 1500             | 158CKS010M     | 0.2432                        | 875   | 10x16          |
| 10   | 2200             | 228CKS010M     | 0.1809                        | 1230  | 10x20          |
| 10   | 3300             | 338CKS010M     | 0.1306                        | 1685  | 12.5x20        |
| 10   | 4700             | 478CKS010M     | 0.0988                        | 2105  | 12.5x25        |
| 10   | 6800             | 688CKS010M     | 0.0756                        | 2610  | 16x25          |
| 10   | 10000            | 109CKS010MQW   | 0.063                         | 2960  | 16x30          |
| 10   | 15000            | 159CKS010MKCG  | 0.0531                        | 3100  | 16x40          |
| 10   | 22000            | 229CKS010M     | 0.0467                        | 3400  | 18x40          |
| 16   | 100              | 107CKS016M     | 2.653                         | 175   | 5x11           |
| 16   | 220              | 227CKS016M     | 1.206                         | 290   | 6.3x11         |
| 16   | 470              | 477CKS016M     | 0.564                         | 500   | 8x11.5         |
| 16   | 1000             | 108CKS016MLN   | 0.3316                        | 700   | 10x12.5        |
| 16   | 1000             | 108CKS016M     | 0.3316                        | 930   | 10x16          |
| 16   | 1500             | 158CKS016M     | 0.199                         | 1025  | 10x20          |
| 16   | 2200             | 228CKS016MLU   | 0.151                         | 1010  | 10x20          |
| 16   | 2200             | 228CKS016M     | 0.151                         | 1555  | 12.5x20        |
| 16   | 3300             | 338CKS016M     | 0.1105                        | 1990  | 12.5x25        |
| 16   | 4700             | 478CKS016M     | 0.085                         | 2490  | 16x25          |
| 16   | 6800             | 688CKS016MQV   | 0.068                         | 2250  | 16x25          |
| 16   | 6800             | 688CKS016MKAG  | 0.068                         | 3010  | 16x30          |
| 16   | 10000            | 109CKS016MQY   | 0.056                         | 3490  | 16x35          |
| 16   | 10000            | 109CKS016M     | 0.056                         | 3230  | 18x35          |
| 16   | 15000            | 159CKS016M     | 0.052                         | 3100  | 18x40          |
| 25   | 47               | 476CKR025M     | 4.938                         | 130   | 5x11           |
| 25   | 100              | 107CKS025MEM   | 2.321                         | 180   | 5x11           |
| 25   | 220              | 227CKS025MGM   | 1.055                         | 280   | 6.3x11         |
| 25   | 220              | 227CKR025M     | 1.055                         | 370   | 8x11.5         |
| 25   | 330              | 337CKS025M     | 0.703                         | 455   | 8x11.5         |
| 25   | 470              | 477CKS025M     | 0.494                         | 630   | 10x12.5        |
| 25   | 1000             | 108CKS025M     | 0.232                         | 1095  | 10x20          |
| 25   | 1000             | 108CKR025M     | 0.232                         | 1150  | 12.5x20        |
| 25   | 1500             | 158CKS025M     | 0.177                         | 1210  | 12.5x20        |
| 25   | 2200             | 228CKS025M     | 0.136                         | 1800  | 12.5x25        |
| 25   | 2200             | 228CKR025M     | 0.1356                        | 1770  | 16x25          |
| 25   | 3300             | 338CKS025M     | 0.703                         | 2305  | 16x25          |
| 25   | 4700             | 478CKS025M     | 0.078                         | 2855  | 16x30          |
| 25   | 6800             | 688CKS025MQY   | 0.063                         | 2600  | 16x35          |
| 25   | 6800             | 688CKS025M     | 0.063                         | 3530  | 18x35          |
| 25   | 10000            | 109CKS025M     | 0.053                         | 2800  | 18x40          |
| 35   | 33               | 336CKR035M     | 6.0238                        | 110   | 5x11           |
| 35   | 47               | 476CKS035M     | 4.233                         | 140   | 5x11           |
| 35   | 100              | 107CKS035M     | 1.989                         | 235   | 6.3x11         |
| 35   | 220              | 227CKS035M     | 1.055                         | 405   | 8x11.5         |
| 35   | 220              | 227CKR035M     | 0.904                         | 450   | 10x12.5        |
| 35   | 330              | 337CKS035M     | 0.603                         | 580   | 10x12.5        |

| WVDC | Capacitance (µF) | IC PART NUMBER | Maximum ESR (Ω) 120 Hz, +20°C | Maximum RMS Ripple Current (mA) 120 Hz, +85°C | Dims DxDL (mm) |
|------|------------------|----------------|-------------------------------|---|----------------|
| 35   | 470              | 477CKS035M     | 0.423                         | 755   | 10x16          |
| 35   | 1000             | 108CKS035M     | 0.199                         | 1410  | 12.5x20        |
| 35   | 1000             | 108CKR035M     | 0.199                         | 1370  | 12.5x25        |
| 35   | 1500             | 158CKR035M     | 0.155                         | 1110  | 16x25          |
| 35   | 2200             | 228CKS035M     | 0.121                         | 2135  | 16x25          |
| 35   | 2200             | 228CKR035M     | 0.1206                        | 2090  | 16x30          |
| 35   | 3300             | 338CKS035MQW   | 0.0904                        | 2340  | 16x30          |
| 35   | 4700             | 478CKS035MQY   | 0.071                         | 2500  | 16x35          |
| 35   | 4700             | 478CKS035M     | 0.071                         | 3400  | 18x35          |
| 35   | 6800             | 688CKS035M     | 0.0585                        | 3500  | 18x40          |
| 50   | 1                | 105CKR050M     | 165.79                        | 13  | 5x11           |
| 50   | 1.5              | 155CKR050M     | 110.52                        | 18  | 5x11           |
| 50   | 2.2              | 225CKR050M     | 75.358                        | 28  | 5x11           |
| 50   | 3.3              | 335CKS050M     | 50.238                        | 35  | 5x11           |
| 50   | 4.7              | 475CKR050M     | 35.274                        | 50  | 5x11           |
| 50   | 10               | 106CKR050M     | 16.579                        | 75  | 5x11           |
| 50   | 15               | 156CKR050M     | 11.052                        | 78  | 5x11           |
| 50   | 22               | 226CKR050M     | 7.536                         | 110   | 5x11           |
| 50   | 33               | 336CKS050M     | 5.0238                        | 130   | 5x11           |
| 50   | 47               | 476CKR050M     | 2.822                         | 180   | 6.3x11         |
| 50   | 100              | 107CKR050M     | 1.658                         | 310   | 8x11.5         |
| 50   | 150              | 157CKS050M     | 1.1052                        | 263   | 8x11.5         |
| 50   | 220              | 227CKS050M     | 0.754                         | 510   | 10x12.5        |
| 50   | 220              | 227CKR050M     | 0.754                         | 540   | 10x16          |
| 50   | 330              | 337CKS050M     | 0.5024                        | 710   | 10x16          |
| 50   | 330              | 337CKR050M     | 0.5024                        | 730   | 10x20          |
| 50   | 470              | 477CKS050M     | 0.3527                        | 815   | 10x20          |
| 50   | 470              | 477CKR050M     | 0.353                         | 930   | 12.5x20        |
| 50   | 680              | 687CKS050MTJG  | 0.244                         | 1000  | 12.5x20        |
| 50   | 680              | 687CKR050M     | 0.244                         | 810   | 12.5x25        |
| 50   | 1000             | 108CKS050M     | 0.166                         | 1715  | 12.5x25        |
| 50   | 1000             | 108CKR050M     | 0.166                         | 1510  | 16x25          |
| 50   | 1500             | 158CKS050M     | 0.133                         | 1650  | 16x30          |
| 50   | 2200             | 228CKS050MQW   | 0.106                         | 2320  | 16x30          |
| 50   | 2200             | 228CKS050M     | 0.106                         | 2390  | 16x35          |
| 50   | 3300             | 338CKS050M     | 0.0804                        | 3220  | 18x35          |
| 50   | 4700             | 478CKS050MLCG  | 0.0635                        | 3340  | 18x40          |
| 63   | 10               | 106CKR063M     | 16.579                        | 75  | 5x11           |
| 63   | 22               | 226CKS063M     | 7.536                         | 115   | 5x11           |
| 63   | 22               | 226CKR063M     | 7.536                         | 130   | 6.3x11         |
| 63   | 33               | 336CKR063M     | 5.0238                        | 160   | 6.3x11         |
| 63   | 47               | 476CKS063M     | 2.822                         | 190   | 6.3x11         |
| 63   | 47               | 476CKR063M     | 2.822                         | 210   | 8x11.5         |
| 63   | 100              | 107CKS063MJM   | 1.658                         | 325   | 8x11.5         |
| 63   | 100              | 107CKR063M     | 1.658                         | 330   | 10x12.5        |
| 63   | 220              | 227CKS063M     | 0.754                         | 615   | 10x16          |
| 63   | 330              | 337CKS063M     | 0.5024                        | 825   | 10x20          |
| 63   | 470              | 477CKS063M     | 0.3527                        | 1155  | 12.5x20        |
| 63   | 680              | 687CKS063MTJD  | 0.244                         | 1515  | 12.5x25        |
| 63   | 1000             | 108CKS063M     | 0.166                         | 2040  | 16x25          |
| 63   | 1000             | 108CKR063M     | 0.166                         | 1670  | 16x30          |
| 63   | 2200             | 228CKS063M     | 0.106                         | 2300  | 18x35          |
| 63   | 3300             | 338CKS063MLCG  | 0.0804                        | 2500  | 18x40          |
| 100  | 1                | 105CKR100M     | 165.79                        | 25  | 5x11           |
| 100  | 2.2              | 225CKS100M     | 75.357                        | 40  | 5x11           |
| 100  | 3.3              | 335CKS100M     | 50.238                        | 45  | 5x11           |
| 100  | 4.7              | 475CKR100M     | 28.219                        | 55  | 5x11           |
| 100  | 10               | 106CKS100MEM   | 16.579                        | 80  | 5x11           |

# CKR\_CKS

+85°C, Standard, 2000 Hour

| WVDC | Capacitance (µF) | IC PART NUMBER | Maximum ESR (Ω) 120 Hz, +20°C | Maximum RMS Ripple Current (mA) 120 Hz, +85°C | Dims DxL (mm) |
|------|------------------|----------------|-------------------------------|---|---------------|
| 100  | 22               | 226CKS100M     | 7.536                         | 135   | 6.3x11        |
| 100  | 22               | 226CKR100M     | 7.536                         | 155   | 8x11.5        |
| 100  | 47               | 476CKS100M     | 2.822                         | 260   | 10x12.5       |
| 100  | 47               | 476CKR100M     | 2.822                         | 280   | 10x16         |
| 100  | 100              | 107CKS100MLQ   | 1.658                         | 340   | 10x16         |
| 100  | 100              | 107CKS100M     | 1.658                         | 455   | 10x20         |
| 100  | 220              | 227CKS100MNU   | 0.754                         | 745   | 12.5x20       |
| 100  | 330              | 337CKS100M     | 0.5024                        | 990   | 12.5x25       |
| 100  | 470              | 477CKS100M     | 0.3527                        | 1395  | 16x25         |
| 100  | 1000             | 108CKS100MRY   | 0.166                         | 1995  | 18x35         |
| 160  | 10               | 106CKS160M     | 33.157                        | 90  | 8x11.5        |
| 160  | 22               | 226CKS160M     | 15.071                        | 172   | 10x16         |
| 160  | 33               | 336CKS160M     | 10.048                        | 230   | 10x20         |
| 160  | 47               | 476CKS160MLU   | 7.055                         | 285   | 10x21         |
| 160  | 47               | 476CKR160M     | 7.055                         | 270   | 12.5x25       |
| 160  | 100              | 107CKS160M     | 3.316                         | 490   | 12.5x25       |
| 160  | 220              | 227CKS160MQW   | 1.13                          | 900   | 16x30         |
| 160  | 330              | 337CKS160MLAG  | 1.005                         | 1150  | 18x30         |
| 160  | 470              | 477CKS160MLAD  | 0.7055                        | 1460  | 18x35         |
| 160  | 680              | 687CKS160MLCD  | 0.488                         | 1600  | 18x45         |
| 200  | 10               | 106CKS200M     | 33.157                        | 100   | 10x12.5       |
| 200  | 22               | 226CKS200MLQ   | 15.071                        | 175   | 10x16         |
| 200  | 33               | 336CKS200MLU   | 10.048                        | 240   | 10x20         |
| 200  | 47               | 476CKS200MTJG  | 7.055                         | 310   | 12.5x20       |
| 200  | 220              | 227CKS200M     | 1.13                          | 960   | 16x35         |
| 200  | 470              | 477CKS200MLCD  | 0.7055                        | 1610  | 18x45         |
| 250  | 1                | 105CKR250M     | 331.573                       | 18  | 6.3x11        |
| 250  | 2.2              | 225CKS250M     | 150.715                       | 32  | 6.3x11        |
| 250  | 3.3              | 335CKS250MGM   | 100.477                       | 40  | 6.3x11        |
| 250  | 4.7              | 475CKS250MGM   | 70.547                        | 58  | 6.3x11        |
| 250  | 10               | 106CKS250MLN   | 33.157                        | 105   | 10x20         |
| 250  | 22               | 226CKS250MLU   | 15.071                        | 195   | 10x20         |
| 250  | 33               | 336CKS250M     | 10.048                        | 260   | 12.5x20       |
| 250  | 47               | 476CKS250MNU   | 7.055                         | 310   | 12.5x20       |
| 250  | 47               | 476CKS250M     | 7.055                         | 350   | 12.5x25       |
| 250  | 100              | 107CKS250MQV   | 3.316                         | 560   | 16x25         |
| 250  | 220              | 227CKS250M     | 1.13                          | 1020  | 18x35         |
| 350  | 2.2              | 225CKS350M     | 180.858                       | 38  | 6.3x11        |
| 350  | 3.3              | 335CKS350MJM   | 120.572                       | 55  | 8x11.5        |
| 350  | 22               | 226CKS350M     | 18.0858                       | 210   | 12.5x20       |
| 350  | 33               | 336CKS350M     | 12.0572                       | 300   | 12.5x25       |

| WVDC | Capacitance (µF) | IC PART NUMBER | Maximum ESR (Ω) 120 Hz, +20°C | Maximum RMS Ripple Current (mA) 120 Hz, +85°C | Dims DxL (mm) |
|------|------------------|----------------|-------------------------------|---|---------------|
| 350  | 47               | 476CKS350M     | 8.4657                        | 390   | 16x25         |
| 350  | 100              | 107CKS350M     | 3.9789                        | 550   | 18x35         |
| 400  | 2.2              | 225CKS400MEBB  | 180.858                       | 38  | 6.3x11        |
| 400  | 3.3              | 335CKS400MJM   | 120.572                       | 55  | 8x11.5        |
| 400  | 4.7              | 475CKS400MFH   | 84.6569                       | 70  | 8x11.5        |
| 400  | 4.7              | 475CKS400M     | 84.6569                       | 75  | 10x16         |
| 400  | 10               | 106CKS400MLQ   | 39.7887                       | 120   | 10x16         |
| 400  | 22               | 226CKS400MTJG  | 18.0858                       | 210   | 12.5x20       |
| 400  | 22               | 226CKS400M     | 18.0858                       | 210   | 12.5x25       |
| 400  | 33               | 336CKS400MTJD  | 12.0572                       | 300   | 12.5x25       |
| 400  | 33               | 336CKS400M     | 12.0572                       | 260   | 16x25         |
| 400  | 47               | 476CKS400MQV   | 8.4657                        | 390   | 16x25         |
| 400  | 100              | 107CKS400MKAD  | 3.9789                        | 640   | 16x35         |
| 450  | 1                | 105CKS450MEBB  | 397.887                       | 20  | 6.3x11        |
| 450  | 1                | 105CKS450M     | 397.887                       | 29  | 8x11.5        |
| 450  | 2.2              | 225CKS450MJM   | 180.858                       | 38  | 8x11.5        |
| 450  | 3.3              | 335CKS450MLM   | 120.572                       | 40  | 10x12.5       |
| 450  | 4.7              | 475CKS450MLN   | 84.6569                       | 70  | 10x12.5       |
| 450  | 4.7              | 475CKS450M     | 84.6569                       | 75  | 10x16         |
| 450  | 10               | 106CKS450MGBW  | 39.7887                       | 105   | 10x16         |
| 450  | 10               | 106CKS450MLU   | 39.7887                       | 80  | 10x20         |
| 450  | 22               | 226CKS450MNV   | 18.0858                       | 210   | 12.5x25       |
| 450  | 22               | 226CKS450M     | 18.0858                       | 210   | 16x25         |
| 450  | 33               | 336CKS450MQV   | 12.0572                       | 300   | 16x25         |
| 450  | 33               | 336CKS450M     | 12.0572                       | 280   | 16x30         |
| 450  | 47               | 476CKS450MQW   | 8.4657                        | 380   | 16x30         |
| 450  | 100              | 107CKS450MLAD  | 3.9789                        | 640   | 18x35         |
| 450  | 100              | 107CKS450M     | 3.9789                        | 550   | 18x40         |
| 450  | 150              | 157CKS450MLCG  | 2.65258                       | 860   | 18x40         |
| 450  | 150              | 157CKS450MLCD  | 2.65258                       | 850   | 18x45         |
| 500  | 1                | 105CKS500MEBB  | 397.887                       | 20  | 6.3x11        |
| 500  | 2.2              | 225CKS500MFH   | 180.858                       | 34  | 8x11.5        |
| 500  | 4.7              | 475CKS500MGBW  | 84.6569                       | 68  | 10x16         |
| 500  | 6.8              | 685CKS500MGJG  | 58.5128                       | 80  | 10x20         |
| 500  | 10               | 106CKS500MTJG  | 39.7887                       | 105   | 12.5x20       |
| 500  | 22               | 226CKS500MKJH  | 18.0858                       | 195   | 16x20         |
| 500  | 33               | 336CKS500MKJD  | 12.0572                       | 260   | 16x25         |
| 500  | 47               | 476CKS500MKAG  | 8.4657                        | 320   | 16x30         |
| 500  | 68               | 686CKS500MKAD  | 5.8513                        | 430   | 18x35         |
| 500  | 82               | 826CKS500MKCG  | 4.8523                        | 500   | 18x40         |
| 500  | 100              | 107CKS500MKCD  | 3.9789                        | 590   | 18x45         |