



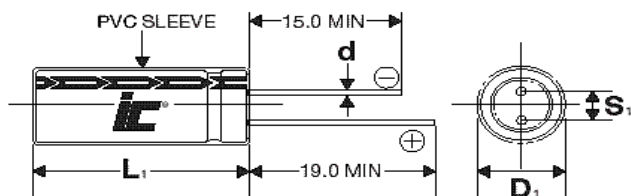
### FEATURES

Small size - High voltage - General purpose

### APPLICATIONS

Bypass – Coupling – Filtering – De-coupling

| Operating Temperature Range                        |                | -40°C to +85°C (6.3 to 160 WVDC)<br>-25°C to +85°C (200 to 500 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 | 500 |
|                                                    | SVDC           | 7.9                                                                  | 13  | 20               | 32  | 44  | 63                               | 79             | 125  | 200             | 250  | 300  | 400 | 450 | 500 | 550 |
| Dissipation Factor                                 | WVDC           | 6.3                                                                  | 10  | 16               | 25  | 35  | 50                               | 63             | 100  | 160             | 200  | 250  | 350 | 400 | 450 | 500 |
|                                                    | Tan δ          | .22                                                                  | .19 | .16              | .14 | .12 | .1                               | .09            | .08  | .15             | .15  | .15  | .2  | .2  | .2  | .24 |
|                                                    |                | Add .02 for every 1000uF above 1000uF                                |     |                  |     |     |                                  |                |      |                 |      |      |     |     |     |     |
| Leakage Current                                    |                | 6.3 to 100 WVDC                                                      |     |                  |     |     |                                  |                |      | 160 to 500 WVDC |      |      |     |     |     |     |
|                                                    |                | 2 Minutes                                                            |     |                  |     |     |                                  |                |      | 2 Minutes       |      |      |     |     |     |     |
|                                                    |                | .01CV or 3uA,<br>Whichever is greater                                |     |                  |     |     |                                  |                |      | .03CV+10uA      |      |      |     |     |     |     |
| Low Temperature Stability Impedance Ratio (120 Hz) | WVDC           | 6.3                                                                  | 10  | 16               | 25  | 35  | 50                               | 63             | 100  | 160             | 200  | 250  | 350 | 400 | 450 | 500 |
|                                                    | -25°C to +20°C | 4                                                                    | 2   | 2                | 2   | 2   | 2                                | 2              | 2    | 3               | 3    | 3    | 6   | 6   | 15  | 15  |
|                                                    | -40°C to +20°C | 8                                                                    | 6   | 4                | 3   | 3   | 3                                | 3              | 3    | 6               | 6    | 6    | 6   | 6   | -   | -   |
| Load Life                                          |                | 2000 hours at 85°C with rated WVDC and ripple current applied        |     |                  |     |     |                                  |                |      |                 |      |      |     |     |     |     |
|                                                    |                | Capacitance Change                                                   |     |                  |     |     | ≤20% of initial measured value   |                |      |                 |      |      |     |     |     |     |
|                                                    |                | Dissipation Factor                                                   |     |                  |     |     | ≤150% of maximum specified value |                |      |                 |      |      |     |     |     |     |
|                                                    |                | Leakage Current                                                      |     |                  |     |     | >100% of maximum specified value |                |      |                 |      |      |     |     |     |     |
| Shelf Life                                         |                | 1000 hours at 85°C with no voltage applied                           |     |                  |     |     |                                  |                |      |                 |      |      |     |     |     |     |
|                                                    |                | Capacitance Change                                                   |     |                  |     |     | ≤20% initial measured value      |                |      |                 |      |      |     |     |     |     |
|                                                    |                | Dissipation Factor                                                   |     |                  |     |     | ≤200% of maximum specified value |                |      |                 |      |      |     |     |     |     |
|                                                    |                | Leakage Current                                                      |     |                  |     |     | ≥100% of maximum specified value |                |      |                 |      |      |     |     |     |     |
| Ripple Current Multipliers                         |                |                                                                      |     |                  |     |     |                                  | Frequency (Hz) |      |                 |      |      |     |     |     |     |
|                                                    |                | WVDC                                                                 |     | Capacitance (uF) |     |     | 50                               | 120            | 300  | 1k              | 10k  | 100k |     |     |     |     |
|                                                    |                | 6.3 to 100V                                                          |     | 0.47 ~ 47        |     |     | .75                              | 1              | 1.35 | 1.57            | 2    | 2.3  |     |     |     |     |
|                                                    |                |                                                                      |     | 100 ~ 470        |     |     | .8                               | 1              | 1.23 | 1.34            | 1.5  | 1.65 |     |     |     |     |
|                                                    |                |                                                                      |     | 560+             |     |     | .85                              | 1              | 1.1  | 1.13            | 1.15 | 1.4  |     |     |     |     |
|                                                    |                | 160 to 500V                                                          |     | 0.47 ~ 4.7       |     |     | .65                              | 1              | 1.35 | 1.75            | 2.3  | 2.5  |     |     |     |     |
|                                                    |                |                                                                      |     | 6.8 ~ 82         |     |     | .75                              | 1              | 1.25 | 1.5             | 1.75 | 1.8  |     |     |     |     |
|                                                    |                |                                                                      |     | 100+             |     |     | .8                               | 1              | 1.15 | 1.3             | 1.4  | 1.5  |     |     |     |     |
|                                                    |                |                                                                      |     |                  |     |     |                                  |                |      |                 |      |      |     |     |     |     |



| 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

mm

# CKR/CKS

## Radial Lead Aluminum Electrolytic Capacitors



| Cap (uF) | VDC | PART #        | Maximum ESR $\Omega$ 120Hz 20°C | Maximum RMS ripple current (mA) 120Hz, 85°C | Dims DxL (mm) |
|----------|-----|---------------|---------------------------------|---------------------------------------------|---------------|
| 0.1      | 50  | 104CKR050M    | 1657.864                        | 1.3                                         | 5x11          |
| 0.22     | 50  | 224CKR050M    | 753.575                         | 2.9                                         | 5x11          |
| 0.33     | 50  | 334CKR050M    | 502.383                         | 4.3                                         | 5x11          |
| 0.47     | 50  | 474CKR050M    | 352.737                         | 6.2                                         | 5x11          |
| 0.47     | 100 | 474CKR100M    | 282.190                         | 10                                          | 5x11          |
| 1        | 50  | 105CKR050M    | 165.786                         | 13                                          | 5x11          |
| 1        | 100 | 105CKR100M    | 132.629                         | 25                                          | 5x11          |
| 1        | 250 | 105CKR250M    | 248.680                         | 18                                          | 6.3x11        |
| 1        | 450 | 105CKS450MEBB | 331.573                         | 20                                          | 6.3x11        |
| 1        | 450 | 105CKS450M    | 331.573                         | 20                                          | 8x11.5        |
| 1        | 500 | 105CKS500MEBB | 397.887                         | 20                                          | 6.3x11        |
| 1.5      | 50  | 155CKR050M    | 110.524                         | 18                                          | 5x11          |
| 2.2      | 50  | 225CKR050M    | 75.357                          | 28                                          | 5x11          |
| 2.2      | 100 | 225CKS100M    | 60.286                          | 40                                          | 5x11          |
| 2.2      | 250 | 225CKS250M    | 113.036                         | 32                                          | 6.3x11        |
| 2.2      | 350 | 225CKS350M    | 150.715                         | 38                                          | 6.3x11        |
| 2.2      | 400 | 225CKS400MEBB | 150.715                         | 38                                          | 6.3x11        |
| 2.2      | 400 | 225CKS400M    | 150.715                         | 38                                          | 8x11.5        |
| 2.2      | 450 | 225CKS450MJM  | 150.715                         | 38                                          | 8x11.5        |
| 2.2      | 500 | 225CKS500MFH  | 180.858                         | 34                                          | 8x11.5        |
| 3.3      | 50  | 335CKS050M    | 50.238                          | 35                                          | 5x11          |
| 3.3      | 100 | 335CKS100M    | 40.191                          | 45                                          | 5x11          |
| 3.3      | 250 | 335CKS250MGM  | 75.357                          | 40                                          | 6.3x11        |
| 3.3      | 250 | 335CKS250M    | 75.357                          | 60                                          | 8x11.5        |
| 3.3      | 350 | 335CKS350MJM  | 100.477                         | 55                                          | 8x11.5        |
| 3.3      | 400 | 335CKS400MJM  | 100.477                         | 55                                          | 8x11.5        |
| 3.3      | 400 | 335CKS400M    | 100.477                         | 55                                          | 10x12.5       |
| 3.3      | 450 | 335CKS450MLM  | 100.477                         | 40                                          | 10x12.5       |
| 3.3      | 500 | 335CKS500MGBG | 120.572                         | 50                                          | 10x12.5       |
| 4.7      | 50  | 475CKR050M    | 35.274                          | 50                                          | 5x11          |
| 4.7      | 100 | 475CKR100M    | 28.219                          | 55                                          | 5x11          |
| 4.7      | 250 | 475CKS250MGM  | 52.911                          | 58                                          | 6.3x11        |
| 4.7      | 350 | 475CKS350MJM  | 70.547                          | 70                                          | 8x11.5        |
| 4.7      | 400 | 475CKS400MFH  | 70.547                          | 70                                          | 8x11.5        |
| 4.7      | 400 | 475CKS400MLN  | 70.547                          | 60                                          | 10x12.5       |
| 4.7      | 400 | 475CKS400M    | 70.547                          | 75                                          | 10x16         |
| 4.7      | 450 | 475CKS450M    | 70.547                          | 75                                          | 10x16         |
| 4.7      | 500 | 475CKS500MGBW | 84.657                          | 68                                          | 10x16         |
| 6.8      | 500 | 685CKS500MGJG | 58.513                          | 80                                          | 10x20         |
| 10       | 50  | 106CKR050M    | 16.579                          | 75                                          | 5x11          |
| 10       | 63  | 106CKR063M    | 13.263                          | 80                                          | 5x11          |
| 10       | 100 | 106CKS100MEM  | 13.263                          | 80                                          | 5x11          |

| Cap (uF) | VDC | PART #        | Maximum ESR $\Omega$ 120Hz 20°C | Maximum RMS ripple current (mA) 120Hz, 85°C | Dims DxL (mm) |
|----------|-----|---------------|---------------------------------|---------------------------------------------|---------------|
| 10       | 100 | 106CKS100M    | 13.263                          | 95                                          | 6.3x11        |
| 10       | 160 | 106CKS160M    | 24.868                          | 90                                          | 8x11.5        |
| 10       | 200 | 106CKS200MJM  | 24.868                          | 95                                          | 8x11.5        |
| 10       | 200 | 106CKS200M    | 24.868                          | 100                                         | 10x12.5       |
| 10       | 250 | 106CKS250M    | 24.868                          | 120                                         | 10x16         |
| 10       | 250 | 106CKS250MLN  | 33.157                          | 105                                         | 10x12.5       |
| 10       | 400 | 106CKS400MLQ  | 33.157                          | 120                                         | 10x16         |
| 10       | 450 | 106CKS450MLU  | 33.157                          | 80                                          | 10x20         |
| 10       | 450 | 106CKS450MGBW | 33.157                          | 105                                         | 10x16         |
| 10       | 500 | 106CKS500MTJG | 39.789                          | 105                                         | 12.5x20       |
| 15       | 50  | 156CKR050M    | 11.052                          | 78                                          | 5x11          |
| 22       | 50  | 226CKR050M    | 7.536                           | 110                                         | 5x11          |
| 22       | 63  | 226CKS063M    | 7.536                           | 115                                         | 5x11          |
| 22       | 63  | 226CKR063M    | 6.029                           | 130                                         | 6.3x11        |
| 22       | 100 | 226CKS100M    | 6.029                           | 135                                         | 6.3x11        |
| 22       | 100 | 226CKR100M    | 6.029                           | 155                                         | 8x11.5        |
| 22       | 160 | 226CKS160M    | 11.304                          | 172                                         | 10x16         |
| 22       | 200 | 226CKS200MLQ  | 11.304                          | 175                                         | 10x16         |
| 22       | 250 | 226CKS250MLU  | 11.304                          | 195                                         | 10x20         |
| 22       | 350 | 226CKS350M    | 15.071                          | 210                                         | 12.5x20       |
| 22       | 400 | 226CKS400M    | 15.071                          | 210                                         | 12.5x25       |
| 22       | 400 | 226CKS400MTJG | 15.071                          | 210                                         | 12.5x20       |
| 22       | 450 | 226CKS450MNV  | 15.071                          | 140                                         | 12.5x25       |
| 22       | 450 | 226CKS450M    | 15.071                          | 210                                         | 16x25         |
| 22       | 500 | 226CKS500MKJH | 18.086                          | 195                                         | 16x20         |
| 33       | 50  | 336CKS050M    | 5.024                           | 130                                         | 5x11          |
| 33       | 63  | 336CKR063M    | 5.024                           | 160                                         | 6.3x11        |
| 33       | 100 | 336CKS100M    | 4.019                           | 190                                         | 8x11.5        |
| 33       | 160 | 336CKS160M    | 7.536                           | 230                                         | 10x20         |
| 33       | 200 | 336CKS200MLU  | 7.536                           | 240                                         | 10x20         |
| 33       | 250 | 336CKS250M    | 7.536                           | 260                                         | 12.5x20       |
| 33       | 350 | 336CKS350M    | 10.048                          | 300                                         | 12.5x25       |
| 33       | 400 | 336CKS400MTJD | 10.048                          | 300                                         | 12.5x25       |
| 33       | 400 | 336CKS400M    | 10.048                          | 260                                         | 16x25         |
| 33       | 450 | 336CKS450M    | 10.048                          | 280                                         | 16x31.5       |
| 33       | 450 | 336CKS450MQV  | 10.048                          | 300                                         | 16x25         |
| 33       | 500 | 336CKS500MKJD | 12.057                          | 260                                         | 16x25         |
| 47       | 25  | 476CKR025M    | 4.938                           | 130                                         | 5x11          |
| 47       | 35  | 476CKS035M    | 4.233                           | 140                                         | 5x11          |
| 47       | 50  | 476CKR050M    | 3.527                           | 180                                         | 6.3x11        |
| 47       | 63  | 476CKS063M    | 3.527                           | 190                                         | 6.3x11        |
| 47       | 100 | 476CKR100M    | 2.822                           | 280                                         | 10x16         |



Your Global Source for World-Class Capacitors

© 2013 Illinois Capacitor, Inc.

North America  
Tel: 847.675.1760  
sales@illcap.com

Asia  
Tel: 852.2793 0931  
sales@illcap.com.hk

# CKR/CKS

## Radial Lead Aluminum Electrolytic Capacitors



| Cap (uF) | VDC | PART #         | Maximum ESR $\Omega$ 120Hz 20°C | Maximum RMS ripple current (mA) 120Hz, 85°C | Dims D x L (mm) |
|----------|-----|----------------|---------------------------------|---------------------------------------------|-----------------|
| 47       | 100 | 476CKS100M     | 2.822                           | 260                                         | 10x12.5         |
| 47       | 160 | 476CKS160MLU   | 7.055                           | 285                                         | 10x20           |
| 47       | 160 | 476CKR160M     | 5.291                           | 270                                         | 12.5x25         |
| 47       | 200 | 476CKS200MTJG  | 7.055                           | 310                                         | 12.5x20         |
| 47       | 250 | 476CKS250MNU   | 7.055                           | 310                                         | 12.5x20         |
| 47       | 250 | 476CKS250M     | 7.055                           | 350                                         | 12.5x25         |
| 47       | 350 | 476CKS350M     | 7.055                           | 390                                         | 16x25           |
| 47       | 400 | 476CKS400MQV   | 7.055                           | 390                                         | 16x25           |
| 47       | 450 | 476CKS450MQW   | 7.055                           | 380                                         | 16x31.5         |
| 47       | 500 | 476CKS500MKAG  | 8.466                           | 320                                         | 16x30           |
| 68       | 500 | 686CKS500MKLAD | 5.851                           | 430                                         | 18x35           |
| 82       | 500 | 826CKS500MKLCG | 4.852                           | 500                                         | 18x40           |
| 100      | 16  | 107CKS016M     | 2.653                           | 175                                         | 5x11            |
| 100      | 25  | 107CKS025MEM   | 2.321                           | 180                                         | 5x11            |
| 100      | 35  | 107CKS035M     | 1.989                           | 215                                         | 6.3x11          |
| 100      | 50  | 107CKR050M     | 1.658                           | 310                                         | 8x11.5          |
| 100      | 63  | 107CKS063MJM   | 1.658                           | 325                                         | 8x11.5          |
| 100      | 63  | 107CKR063M     | 1.658                           | 330                                         | 10x12.5         |
| 100      | 100 | 107CKS100M     | 1.326                           | 455                                         | 10x20           |
| 100      | 100 | 107CKS100MLQ   | 1.326                           | 340                                         | 10x16           |
| 100      | 160 | 107CKS160M     | 3.316                           | 490                                         | 12.5x25         |
| 100      | 200 | 107CKS200MKJG  | 3.316                           | 520                                         | 16x20           |
| 100      | 250 | 107CKS250MQV   | 3.316                           | 580                                         | 16x25           |
| 100      | 350 | 107CKS350M     | 3.316                           | 550                                         | 18x35.5         |
| 100      | 400 | 107CKS400MKAD  | 3.316                           | 640                                         | 16x35           |
| 100      | 450 | 107CKS450M     | 3.316                           | 550                                         | 18x40           |
| 100      | 450 | 107CKS450MLAD  | 3.316                           | 640                                         | 18x35           |
| 100      | 500 | 107CKS500MKLCD | 3.979                           | 590                                         | 18x45           |
| 150      | 25  | 157CKR025M     | 1.547                           | 258                                         | 8x11.5          |
| 150      | 35  | 157CKR035M     | 1.326                           | 291                                         | 10x12.5         |
| 150      | 450 | 157CKS450MLCG  | 2.210                           | 860                                         | 18x40           |
| 150      | 450 | 157CKS450MLCD  | 2.210                           | 850                                         | 18x45           |
| 220      | 10  | 227CKS010M     | 1.507                           | 230                                         | 5x11            |
| 220      | 16  | 227CKS016M     | 1.206                           | 290                                         | 6.3x11          |
| 220      | 25  | 227CKS025MGM   | 1.055                           | 280                                         | 6.3x11          |
| 220      | 25  | 227CKR025M     | 1.055                           | 370                                         | 8x11.5          |
| 220      | 35  | 227CKS035M     | 0.904                           | 405                                         | 8x11.5          |
| 220      | 35  | 227CKR035M     | 0.904                           | 450                                         | 10x12.5         |
| 220      | 50  | 227CKS050M     | 0.754                           | 490                                         | 10x12.5         |
| 220      | 50  | 227CKR050M     | 0.754                           | 510                                         | 10x16           |
| 220      | 100 | 227CKS100MNU   | 0.603                           | 745                                         | 12.5x20         |
| 220      | 100 | 227CKR100M     | 0.603                           | 790                                         | 16x25           |

| Cap (uF) | VDC | PART #        | Maximum ESR $\Omega$ 120Hz 20°C | Maximum RMS ripple current (mA) 120Hz, 85°C | Dims D x L (mm) |
|----------|-----|---------------|---------------------------------|---------------------------------------------|-----------------|
| 220      | 250 | 227CKS250M    | 1.130                           | 1020                                        | 18x35.5         |
| 330      | 10  | 337CKS010M    | 1.005                           | 325                                         | 6.3x11          |
| 330      | 16  | 337CKS016MGM  | 0.804                           | 350                                         | 6.3x11          |
| 330      | 25  | 337CKS025M    | 0.703                           | 455                                         | 8x11.5          |
| 330      | 35  | 337CKS035M    | 0.603                           | 580                                         | 10x12.5         |
| 330      | 50  | 337CKS050M    | 0.502                           | 710                                         | 10x16           |
| 330      | 50  | 337CKR050M    | 0.502                           | 730                                         | 10x20           |
| 330      | 63  | 337CKS063M    | 0.502                           | 825                                         | 10x20           |
| 330      | 100 | 337CKS100M    | 0.402                           | 990                                         | 12.5x25         |
| 330      | 160 | 337CKS160MLAG | 1.005                           | 1150                                        | 18x30           |
| 470      | 10  | 477CKS010M    | 0.705                           | 385                                         | 6.3x11          |
| 470      | 16  | 477CKS016M    | 0.564                           | 500                                         | 8x11.5          |
| 470      | 25  | 477CKS025M    | 0.494                           | 630                                         | 10x12.5         |
| 470      | 35  | 477CKS035M    | 0.423                           | 755                                         | 10x16           |
| 470      | 50  | 477CKS050M    | 0.353                           | 815                                         | 10x20           |
| 470      | 50  | 477CKR050M    | 0.353                           | 930                                         | 12.5x20         |
| 470      | 63  | 477CKR063M    | 0.353                           | 1030                                        | 12.5x25         |
| 470      | 63  | 477CKS063M    | 0.353                           | 1155                                        | 12.5x20         |
| 470      | 100 | 477CKS100M    | 0.282                           | 1395                                        | 16x25           |
| 470      | 160 | 477CKS160MLAD | 0.705                           | 1480                                        | 18x35           |
| 470      | 350 | 477CKS200MLCD | 0.705                           | 1610                                        | 18x45           |
| 680      | 50  | 687CKS050MTJG | 0.244                           | 1000                                        | 12.5x20         |
| 680      | 50  | 687CKR050M    | 0.244                           | 810                                         | 12.5x25         |
| 680      | 63  | 687CKS063MTJD | 0.244                           | 1515                                        | 12.5x25         |
| 680      | 160 | 687CKS160MLCD | 0.488                           | 1600                                        | 18x45           |
| 1000     | 6.3 | 108CKS6R3M    | 0.398                           | 610                                         | 8x11.5          |
| 1000     | 10  | 108CKS010M    | 0.332                           | 795                                         | 10x12.5         |
| 1000     | 16  | 108CKS016MLN  | 0.332                           | 700                                         | 10x12.5         |
| 1000     | 16  | 108CKS016M    | 0.332                           | 930                                         | 10x16           |
| 1000     | 25  | 108CKS025M    | 0.232                           | 1095                                        | 10x20           |
| 1000     | 25  | 108CKR025M    | 0.232                           | 1095                                        | 12.5x20         |
| 1000     | 35  | 108CKR035M    | 0.199                           | 1370                                        | 12.5x25         |
| 1000     | 35  | 108CKS035M    | 0.199                           | 1410                                        | 12.5x20         |
| 1000     | 50  | 108CKS050M    | 0.166                           | 1715                                        | 12.5x25         |
| 1000     | 50  | 108CKR050M    | 0.166                           | 1510                                        | 16x25           |
| 1000     | 63  | 108CKR063M    | 0.166                           | 1670                                        | 16x31.5         |
| 1000     | 63  | 108CKS063M    | 0.166                           | 2040                                        | 16x25           |
| 1000     | 100 | 108CKS100MRY  | 0.133                           | 1995                                        | 18x35.5         |
| 1500     | 10  | 158CKS010M    | 0.243                           | 875                                         | 10x16           |
| 1500     | 16  | 158CKS016M    | 0.199                           | 1025                                        | 10x20           |
| 1500     | 25  | 158CKS025M    | 0.177                           | 1210                                        | 12.5x20         |
| 1500     | 35  | 158CKS035M    | 0.155                           | 1590                                        | 12.5x25         |



Your Global Source for World-Class Capacitors

© 2013 Illinois Capacitor, Inc.

North America  
Tel: 847.675.1760  
sales@illcap.com

Asia  
Tel: 852.2793 0931  
sales@illcap.com.hk

# CKR/CKS

## Radial Lead Aluminum Electrolytic Capacitors



| Cap (uF) | VDC | PART #        | Maximum ESR $\Omega$ 120Hz 20°C | Maximum RMS ripple current (mA) 120Hz, 85°C | Dims DxL (mm) |
|----------|-----|---------------|---------------------------------|---------------------------------------------|---------------|
| 1500     | 35  | 158CKR035M    | 0.155                           | 1110                                        | 16x25         |
| 2200     | 6.3 | 228CKS6R3M    | 0.211                           | 900                                         | 10x16         |
| 2200     | 10  | 228CKS010M    | 0.181                           | 1230                                        | 10x20         |
| 2200     | 16  | 228CKS016MLU  | 0.151                           | 1010                                        | 10x20         |
| 2200     | 16  | 228CKS016M    | 0.151                           | 1555                                        | 12.5x20       |
| 2200     | 25  | 228CKS025M    | 0.136                           | 1800                                        | 12.5x25       |
| 2200     | 25  | 228CKR025M    | 0.136                           | 1800                                        | 16x25         |
| 2200     | 35  | 228CKS035M    | 0.121                           | 2135                                        | 16x25         |
| 2200     | 35  | 228CKR035M    | 0.121                           | 2090                                        | 16x31.5       |
| 2200     | 50  | 228CKS050MQW  | 0.106                           | 2320                                        | 16x31.5       |
| 2200     | 50  | 228CKR050M    | 0.106                           | 2550                                        | 18x35.5       |
| 2200     | 63  | 228CKS063M    | 0.106                           | 2300                                        | 18x35.5       |
| 3300     | 6.3 | 338CKS6R3M    | 0.151                           | 1350                                        | 10x20         |
| 3300     | 10  | 338CKS010M    | 0.131                           | 1685                                        | 12.5x20       |
| 3300     | 16  | 338CKS016M    | 0.111                           | 1990                                        | 12.5x25       |
| 3300     | 25  | 338CKS025M    | 0.100                           | 2305                                        | 16x25         |
| 3300     | 35  | 338CKS035MQW  | 0.090                           | 2340                                        | 16x31.5       |
| 3300     | 50  | 338CKS050M    | 0.080                           | 3220                                        | 18x35.5       |
| 3300     | 63  | 338CKS063MLCG | 0.080                           | 2500                                        | 18x40         |
| 4700     | 6.3 | 478CKS6R3M    | 0.113                           | 1830                                        | 12.5x20       |
| 4700     | 10  | 478CKS010M    | 0.099                           | 2105                                        | 12.5x25       |
| 4700     | 16  | 478CKS016M    | 0.085                           | 2490                                        | 16x25         |

| Cap (uF) | VDC | PART #        | Maximum ESR $\Omega$ 120Hz 20°C | Maximum RMS ripple current (mA) 120Hz, 85°C | Dims DxL (mm) |
|----------|-----|---------------|---------------------------------|---------------------------------------------|---------------|
| 4700     | 25  | 478CKR025M    | 0.078                           | 2810                                        | 18x35.5       |
| 4700     | 35  | 478CKS035MQY  | 0.071                           | 2500                                        | 16x35.5       |
| 4700     | 35  | 478CKS035M    | 0.071                           | 3400                                        | 18x35.5       |
| 4700     | 50  | 478CKS050MLCG | 0.063                           | 3340                                        | 18x40         |
| 6800     | 6.3 | 688CKS6R3M    | 0.088                           | 1930                                        | 12.5x25       |
| 6800     | 10  | 688CKS010M    | 0.078                           | 2610                                        | 16x25         |
| 6800     | 16  | 688CKS016MKAG | 0.068                           | 3010                                        | 16x30         |
| 6800     | 16  | 688CKS016MQV  | 0.068                           | 2250                                        | 16x25         |
| 6800     | 25  | 688CKS025MQY  | 0.063                           | 2600                                        | 16x35.5       |
| 6800     | 25  | 688CKS025M    | 0.063                           | 3530                                        | 18x35.5       |
| 6800     | 35  | 688CKS035M    | 0.059                           | 3500                                        | 18x40         |
| 10000    | 6.3 | 109CKS6R3M    | 0.070                           | 2760                                        | 16x25         |
| 10000    | 10  | 109CKS010MQW  | 0.063                           | 2960                                        | 16x31.5       |
| 10000    | 16  | 109CKS016MQY  | 0.056                           | 3490                                        | 16x35.5       |
| 10000    | 16  | 109CKS016M    | 0.056                           | 3230                                        | 18x35.5       |
| 10000    | 25  | 109CKS025M    | 0.053                           | 2800                                        | 18x40         |
| 15000    | 6.3 | 159CKS6R3MQW  | 0.057                           | 2550                                        | 16x31.5       |
| 15000    | 6.3 | 159CKS6R3M    | 0.057                           | 2860                                        | 16x35.5       |
| 15000    | 10  | 159CKS010MKCG | 0.053                           | 3100                                        | 16x40         |
| 15000    | 16  | 159CKS016M    | 0.053                           | 3100                                        | 18x40         |
| 22000    | 6.3 | 229CKS6R3MRY  | 0.050                           | 3200                                        | 18x35.5       |
| 22000    | 10  | 229CKS010M    | 0.047                           | 3400                                        | 18x40         |



Your Global Source for World-Class Capacitors

© 2013 Illinois Capacitor, Inc.

North America  
Tel: 847.675.1760  
sales@illcap.com

Asia  
Tel: 852.2793 0931  
sales@illcap.com.hk