

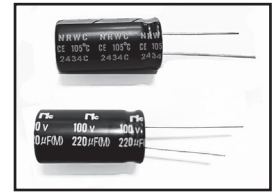
# NRWC Series

## Radial Leaded Aluminum Electrolytic Capacitors



### FEATURES

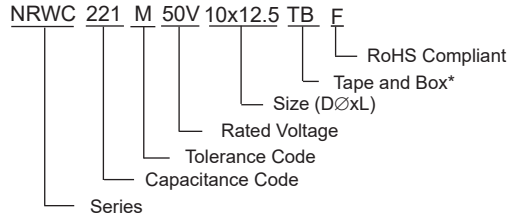
- RADIAL LEADS, POLARIZED
- HIGH CAPACITANCE (UP TO 18,000 $\mu$ F)
- HIGH VOLTAGE (UP TO 500VDC)



### CHARACTERISTICS

|                                                   |                                |                                                            |      |       |       |       |      |       |     |
|---------------------------------------------------|--------------------------------|------------------------------------------------------------|------|-------|-------|-------|------|-------|-----|
| Rated Voltage Range                               |                                | 6.3 ~ 500VDC                                               |      |       |       |       |      |       |     |
| Capacitance Range                                 |                                | 1.0 ~ 18,000 $\mu$ F                                       |      |       |       |       |      |       |     |
| Operating Temperature Range                       | 6.3 ~ 100Vdc                   | -40°C ~ +105°C                                             |      |       |       |       |      |       |     |
|                                                   | 160 ~ 500Vdc                   | -25°C ~ +105°C                                             |      |       |       |       |      |       |     |
| Capacitance Tolerance                             |                                | $\pm 20\%$ (M)                                             |      |       |       |       |      |       |     |
| Maximum Leakage Current                           | 6.3 ~ 100Vdc                   | 0.01CV or 3 $\mu$ A whichever is greater (after 1 minutes) |      |       |       |       |      |       |     |
|                                                   | 160 ~ 500Vdc                   | 0.03CV or 3 $\mu$ A whichever is greater (after 1 minutes) |      |       |       |       |      |       |     |
| Surge Voltage                                     | W.V. (Vdc)                     | 6.3                                                        | 10   | 16    | 25    | 35    | 50   | 63    | 100 |
|                                                   | S.V. (Vdc)                     | 7.245                                                      | 11.5 | 18.4  | 28.75 | 40.25 | 57.5 | 72.45 | 115 |
|                                                   | W.V. (Vdc)                     | 160                                                        | 200  | 250   | 350   | 400   | 420  | 450   | 500 |
|                                                   | S.V. (Vdc)                     | 184                                                        | 230  | 287.5 | 385   | 440   | 462  | 495   | 550 |
| Max. Tan $\delta$ at 120Hz/20°C                   |                                | See standard values, sizes and specifications tables       |      |       |       |       |      |       |     |
| Low Temperature Stability Impedance Ratio @ 120Hz | W.V. (Vdc)                     | 6.3                                                        | 10   | 16    | 25    | 35    | 50   | 63    | 100 |
|                                                   | Z-25°C/Z+20°C                  | 4                                                          | 3    | 2     | 2     | 2     | 2    | 2     | 2   |
|                                                   | Z-40°C/Z+20°C                  | 8                                                          | 6    | 4     | 3     | 3     | 3    | 3     | 3   |
|                                                   | W.V. (Vdc)                     | 160                                                        | 200  | 250   | 350   | 400   | 420  | 450   | 500 |
|                                                   | Z-25°C/Z+20°C                  | 2                                                          | 2    | 3     | 5     | 6     | 6    | 6     | 6   |
|                                                   | For Capacitance > 1000 $\mu$ F |                                                            |      |       |       |       |      |       |     |
|                                                   | Z-25°C/Z+20°C                  | Add 0.5 for every 1,000 $\mu$ F of rated capacitance value |      |       |       |       |      |       |     |
|                                                   | Z-40°C/Z+20°C                  | Add 1.0 for every 1,000 $\mu$ F of rated capacitance value |      |       |       |       |      |       |     |
| Load Life Test Rated Voltage @ 105°C              | Duration                       | 2,000 hours                                                |      |       |       |       |      |       |     |
|                                                   | $\Delta$ Capacitance           | Within $\pm 20\%$ of initial measured value                |      |       |       |       |      |       |     |
|                                                   | $\Delta$ Tan $\delta$          | Less than 200% of specified value                          |      |       |       |       |      |       |     |
|                                                   | $\Delta$ LC                    | Less than specified value                                  |      |       |       |       |      |       |     |

### PART NUMBERING SYSTEM

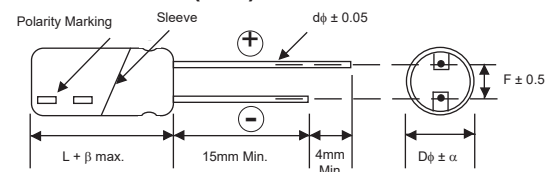


\*see tape specification for details

### LEAD SPACING AND DIAMETER (mm)

|                       |     |     |      |             |     |      |     |     |
|-----------------------|-----|-----|------|-------------|-----|------|-----|-----|
| Case Dia. (D $\phi$ ) | 5   | 6.3 | 8    |             | 10  | 12.5 | 16  | 18  |
| Lead Dia. (D $\phi$ ) | 0.5 | 0.5 | L<20 | L $\geq$ 20 | 0.6 | 0.6  | 0.8 | 0.8 |
|                       |     |     | 0.5  | 0.6         |     |      |     |     |
| Lead Spacing (F)      | 2.0 | 2.5 | 3.5  |             | 5.0 | 5.0  | 7.5 | 7.5 |
| Dim. $\alpha$         | 0.5 |     |      |             |     |      |     |     |

### DIMENSIONS (mm)



$$\beta = D < 16\text{mm} = 1.5\text{mm}$$

$$\beta = D = 16\text{mm}, L = 25\text{mm to } 35.5\text{mm} = 1.5\text{mm}$$

$$\beta = D = 16\text{mm}, L = 35.5\text{mm to } 45\text{mm} = 2.0\text{mm}$$

$$\beta = D = 18\text{mm}, L = 25\text{mm to } 31.5\text{mm} = 1.5\text{mm}$$

$$\beta = D = 18\text{mm}, L = 35\text{mm to } 45\text{mm} = 2.0\text{mm}$$

Drawing is representative of parts as supplied in bulk or straight lead format, please see taping specification for details on taped format packaging.

# NRWC Series

## Radial Leaded Aluminum Electrolytic Capacitors



### STANDARD VALUES, SPECIFICATIONS AND CASE SIZES (mm)

| Part Number          | Cap.<br>( $\mu$ F) | W.V.<br>(Vdc) | Dissipation Factor<br>+20°C/120Hz | Ripple Current Rating (mA)<br>+105°C/120Hz | Max. ESR ( $\Omega$ )<br>+20°C/120Hz | Load Life Hours<br>@+105°C |
|----------------------|--------------------|---------------|-----------------------------------|--------------------------------------------|--------------------------------------|----------------------------|
| NRWC101M6.3V5X11F    | 100                | 6.3           | 0.22                              | 96                                         | 3.65                                 | 2,000                      |
| NRWC471M6.3V6.3X11F  | 470                |               | 0.22                              | 220                                        | 0.78                                 | 2,000                      |
| NRWC681M6.3V8X11.5F  | 680                |               | 0.22                              | 360                                        | 0.54                                 | 2,000                      |
| NRWC102M6.3V10X12.5F | 1000               |               | 0.22                              | 430                                        | 0.37                                 | 2,000                      |
| NRWC472M6.3V12.5X20F | 4700               |               | 0.28                              | 1150                                       | 0.10                                 | 2,000                      |
| NRWC103M6.3V16X25F   | 10000              |               | 0.40                              | 1680                                       | 0.07                                 | 2,000                      |
| NRWC220M10V5X11F     | 22                 | 10            | 0.17                              | 45                                         | 12.82                                | 2,000                      |
| NRWC330M10V5X11F     | 33                 |               | 0.17                              | 60                                         | 8.55                                 | 2,000                      |
| NRWC470M10V5X11F     | 47                 |               | 0.17                              | 70                                         | 6.00                                 | 2,000                      |
| NRWC680M10V5X11F     | 68                 |               | 0.17                              | 80                                         | 4.15                                 | 2,000                      |
| NRWC101M10V5X11F     | 100                |               | 0.17                              | 105                                        | 2.82                                 | 2,000                      |
| NRWC121M10V5X11F     | 120                |               | 0.17                              | 110                                        | 2.35                                 | 2,000                      |
| NRWC151M10V5X11F     | 150                |               | 0.17                              | 120                                        | 1.88                                 | 2,000                      |
| NRWC221M10V6.3X11F   | 220                |               | 0.17                              | 175                                        | 1.29                                 | 2,000                      |
| NRWC331M10V6.3X11F   | 330                |               | 0.17                              | 205                                        | 0.86                                 | 2,000                      |
| NRWC471M10V6.3X11F   | 470                |               | 0.17                              | 235                                        | 0.60                                 | 2,000                      |
| NRWC471M10V8X11.5F   | 470                |               | 0.17                              | 290                                        | 0.60                                 | 2,000                      |
| NRWC561M10V8X11.5F   | 560                |               | 0.17                              | 330                                        | 0.51                                 | 2,000                      |
| NRWC681M10V8X11.5F   | 680                |               | 0.17                              | 365                                        | 0.42                                 | 2,000                      |
| NRWC821M10V10X12.5F  | 820                |               | 0.17                              | 480                                        | 0.35                                 | 2,000                      |
| NRWC102M10V10X12.5F  | 1000               |               | 0.17                              | 520                                        | 0.29                                 | 2,000                      |
| NRWC122M10V10X16F    | 1200               |               | 0.17                              | 630                                        | 0.24                                 | 2,000                      |
| NRWC152M10V8X20F     | 1500               |               | 0.17                              | 715                                        | 0.19                                 | 2,000                      |
| NRWC152M10V10X16F    | 1500               |               | 0.17                              | 770                                        | 0.19                                 | 2,000                      |
| NRWC182M10V10X20F    | 1800               |               | 0.17                              | 820                                        | 0.16                                 | 2,000                      |
| NRWC222M10V10X20F    | 2200               |               | 0.19                              | 860                                        | 0.15                                 | 2,000                      |
| NRWC272M10V10X25F    | 2700               |               | 0.19                              | 880                                        | 0.12                                 | 2,000                      |
| NRWC272M10V12.5X20F  | 2700               |               | 0.19                              | 920                                        | 0.12                                 | 2,000                      |
| NRWC332M10V12.5X20F  | 3300               |               | 0.21                              | 1100                                       | 0.11                                 | 2,000                      |
| NRWC392M10V12.5X20F  | 3900               |               | 0.21                              | 1280                                       | 0.09                                 | 2,000                      |
| NRWC472M10V12.5X25F  | 4700               |               | 0.23                              | 1350                                       | 0.09                                 | 2,000                      |
| NRWC562M10V16X25F    | 5600               |               | 0.25                              | 1490                                       | 0.08                                 | 2,000                      |
| NRWC682M10V16X25F    | 6800               |               | 0.27                              | 1670                                       | 0.07                                 | 2,000                      |
| NRWC822M10V16X31.5F  | 8200               |               | 0.31                              | 1840                                       | 0.07                                 | 2,000                      |
| NRWC103M10V16X35.5F  | 10000              |               | 0.35                              | 1900                                       | 0.06                                 | 2,000                      |
| NRWC123M10V16X35.5F  | 12000              |               | 0.39                              | 2050                                       | 0.06                                 | 2,000                      |
| NRWC153M10V18X35.5F  | 15000              |               | 0.45                              | 2180                                       | 0.05                                 | 2,000                      |
| NRWC183M10V18X35.5F  | 18000              |               | 0.51                              | 2205                                       | 0.05                                 | 2,000                      |
| NRWC100M16V5X11F     | 10                 | 16            | 0.16                              | 35                                         | 26.54                                | 2,000                      |
| NRWC220M16V5X11F     | 22                 |               | 0.16                              | 54                                         | 12.07                                | 2,000                      |
| NRWC330M16V5X11F     | 33                 |               | 0.16                              | 64                                         | 8.05                                 | 2,000                      |
| NRWC470M16V5X11F     | 47                 |               | 0.16                              | 100                                        | 5.65                                 | 2,000                      |
| NRWC680M16V5X11F     | 68                 |               | 0.16                              | 105                                        | 3.91                                 | 2,000                      |
| NRWC101M16V5X11F     | 100                |               | 0.16                              | 115                                        | 2.66                                 | 2,000                      |
| NRWC101M16V6.3X11F   | 100                |               | 0.16                              | 130                                        | 2.66                                 | 2,000                      |
| NRWC121M16V6.3X11F   | 120                |               | 0.16                              | 155                                        | 2.22                                 | 2,000                      |
| NRWC151M16V6.3X11F   | 150                |               | 0.16                              | 170                                        | 1.77                                 | 2,000                      |
| NRWC181M16V6.3X11F   | 180                |               | 0.16                              | 190                                        | 1.48                                 | 2,000                      |
| NRWC221M16V6.3X11F   | 220                |               | 0.16                              | 215                                        | 1.21                                 | 2,000                      |
| NRWC331M16V6.3X11F   | 330                |               | 0.16                              | 225                                        | 0.81                                 | 2,000                      |
| NRWC331M16V8X11.5F   | 330                |               | 0.16                              | 265                                        | 0.81                                 | 2,000                      |
| NRWC471M16V8X11.5F   | 470                |               | 0.16                              | 370                                        | 0.57                                 | 2,000                      |
| NRWC561M16V10X12.5F  | 560                |               | 0.16                              | 410                                        | 0.48                                 | 2,000                      |
| NRWC681M16V8X16F     | 680                |               | 0.16                              | 470                                        | 0.40                                 | 2,000                      |
| NRWC681M16V10X12.5F  | 680                |               | 0.16                              | 480                                        | 0.40                                 | 2,000                      |
| NRWC821M16V10X16F    | 820                |               | 0.16                              | 550                                        | 0.33                                 | 2,000                      |
| NRWC102M16V10X12.5F  | 1000               |               | 0.16                              | 540                                        | 0.27                                 | 2,000                      |
| NRWC102M16V10X16F    | 1000               |               | 0.16                              | 600                                        | 0.27                                 | 2,000                      |

# NRWC Series

## Radial Leaded Aluminum Electrolytic Capacitors



### STANDARD VALUES, SPECIFICATIONS AND CASE SIZES (mm)

| Part Number         | Cap.<br>( $\mu$ F) | W.V.<br>(Vdc) | Dissipation Factor<br>+20°C/120Hz | Ripple Current Rating (mA)<br>+105°C/120Hz | Max. ESR ( $\Omega$ )<br>+20°C/120Hz | Load Life Hours<br>@+105°C |
|---------------------|--------------------|---------------|-----------------------------------|--------------------------------------------|--------------------------------------|----------------------------|
| NRWC122M16V10X20F   | 1200               | 16            | 0.16                              | 700                                        | 0.23                                 | 2000                       |
| NRWC152M16V10X20F   | 1500               |               | 0.16                              | 820                                        | 0.18                                 | 2000                       |
| NRWC182M16V12.5X20F | 1800               |               | 0.16                              | 920                                        | 0.15                                 | 2000                       |
| NRWC222M16V12.5X20F | 2200               |               | 0.18                              | 1000                                       | 0.14                                 | 2000                       |
| NRWC272M16V12.5X20F | 2700               |               | 0.18                              | 1080                                       | 0.12                                 | 2000                       |
| NRWC332M16V12.5X25F | 3300               |               | 0.20                              | 1200                                       | 0.11                                 | 2000                       |
| NRWC392M16V16X25F   | 3900               |               | 0.20                              | 1490                                       | 0.09                                 | 2000                       |
| NRWC472M16V16X25F   | 4700               |               | 0.22                              | 1600                                       | 0.08                                 | 2000                       |
| NRWC562M16V16X31.5F | 5600               |               | 0.24                              | 1720                                       | 0.08                                 | 2000                       |
| NRWC682M16V16X31.5F | 6800               |               | 0.26                              | 1900                                       | 0.07                                 | 2000                       |
| NRWC822M16V16X35.5F | 8200               |               | 0.30                              | 2020                                       | 0.07                                 | 2000                       |
| NRWC103M16V18X35.5F | 10000              |               | 0.34                              | 2060                                       | 0.06                                 | 2000                       |
| NRWC123M16V18X35.5F | 12000              |               | 0.38                              | 2150                                       | 0.06                                 | 2000                       |
| NRWC4R7M25V5X11F    | 4.7                | 25            | 0.14                              | 26                                         | 49.38                                | 2000                       |
| NRWC6R8M25V5X11F    | 6.8                |               | 0.14                              | 32                                         | 34.15                                | 2000                       |
| NRWC100M25V5X11F    | 10                 |               | 0.14                              | 38                                         | 23.23                                | 2000                       |
| NRWC220M25V5X11F    | 22                 |               | 0.14                              | 58                                         | 10.56                                | 2000                       |
| NRWC330M25V5X11F    | 33                 |               | 0.14                              | 69                                         | 7.04                                 | 2000                       |
| NRWC470M25V5X11F    | 47                 |               | 0.14                              | 105                                        | 4.95                                 | 2000                       |
| NRWC680M25V6.3X11F  | 68                 |               | 0.14                              | 120                                        | 3.42                                 | 2000                       |
| NRWC101M25V6.3X11F  | 100                |               | 0.14                              | 145                                        | 2.33                                 | 2000                       |
| NRWC121M25V6.3X11F  | 120                |               | 0.14                              | 175                                        | 1.94                                 | 2000                       |
| NRWC151M25V6.3X11F  | 150                |               | 0.14                              | 180                                        | 1.55                                 | 2000                       |
| NRWC181M25V8X11.5F  | 180                |               | 0.14                              | 210                                        | 1.30                                 | 2000                       |
| NRWC221M25V8X11.5F  | 220                |               | 0.14                              | 235                                        | 1.06                                 | 2000                       |
| NRWC331M25V8X11.5F  | 330                |               | 0.14                              | 310                                        | 0.71                                 | 2000                       |
| NRWC331M25V10X12.5F | 330                |               | 0.14                              | 335                                        | 0.71                                 | 2000                       |
| NRWC471M25V8X11.5F  | 470                |               | 0.14                              | 410                                        | 0.50                                 | 2000                       |
| NRWC471M25V10X12.5F | 470                |               | 0.14                              | 440                                        | 0.50                                 | 2000                       |
| NRWC561M25V10X16F   | 560                |               | 0.14                              | 460                                        | 0.42                                 | 2000                       |
| NRWC681M25V10X16F   | 680                |               | 0.14                              | 520                                        | 0.35                                 | 2000                       |
| NRWC821M25V10X20F   | 820                |               | 0.14                              | 640                                        | 0.29                                 | 2000                       |
| NRWC102M25V10X16F   | 1000               |               | 0.14                              | 644                                        | 0.24                                 | 2000                       |
| NRWC102M25V10X20F   | 1000               |               | 0.14                              | 710                                        | 0.24                                 | 2000                       |
| NRWC122M25V12.5X20F | 1200               |               | 0.14                              | 810                                        | 0.20                                 | 2000                       |
| NRWC152M25V12.5X20F | 1500               |               | 0.14                              | 900                                        | 0.16                                 | 2000                       |
| NRWC182M25V12.5X25F | 1800               |               | 0.14                              | 1050                                       | 0.13                                 | 2000                       |
| NRWC222M25V12.5X25F | 2200               |               | 0.16                              | 1200                                       | 0.13                                 | 2000                       |
| NRWC272M25V16X25F   | 2700               |               | 0.16                              | 1320                                       | 0.10                                 | 2000                       |
| NRWC332M25V16X25F   | 3300               |               | 0.18                              | 1460                                       | 0.10                                 | 2000                       |
| NRWC392M25V16X31.5F | 3900               |               | 0.18                              | 1670                                       | 0.08                                 | 2000                       |
| NRWC472M25V16X35.5F | 4700               |               | 0.20                              | 1780                                       | 0.08                                 | 2000                       |
| NRWC562M25V16X35.5F | 5600               |               | 0.22                              | 1890                                       | 0.07                                 | 2000                       |
| NRWC682M25V18X35.5F | 6800               |               | 0.24                              | 2050                                       | 0.06                                 | 2000                       |
| NRWC822M25V18X35.5F | 8200               |               | 0.28                              | 2090                                       | 0.06                                 | 2000                       |
| NRWC4R7M35V5X11F    | 4.7                | 35            | 0.12                              | 28                                         | 42.32                                | 2000                       |
| NRWC6R8M35V5X11F    | 6.8                |               | 0.12                              | 36                                         | 29.28                                | 2000                       |
| NRWC100M35V5X11F    | 10                 |               | 0.12                              | 46                                         | 19.91                                | 2000                       |
| NRWC220M35V5X11F    | 22                 |               | 0.12                              | 61                                         | 9.05                                 | 2000                       |
| NRWC330M35V5X11F    | 33                 |               | 0.12                              | 75                                         | 6.04                                 | 2000                       |
| NRWC470M35V5X11F    | 47                 |               | 0.12                              | 110                                        | 4.24                                 | 2000                       |
| NRWC680M35V6.3X11F  | 68                 |               | 0.12                              | 140                                        | 2.93                                 | 2000                       |
| NRWC101M35V6.3X11F  | 100                |               | 0.12                              | 160                                        | 2.00                                 | 2000                       |
| NRWC101M35V8X11.5F  | 100                |               | 0.12                              | 175                                        | 2.00                                 | 2000                       |
| NRWC121M35V8X11.5F  | 120                |               | 0.12                              | 185                                        | 1.66                                 | 2000                       |
| NRWC151M35V8X11.5F  | 150                |               | 0.12                              | 215                                        | 1.33                                 | 2000                       |
| NRWC181M35V8X11.5F  | 180                |               | 0.12                              | 225                                        | 1.11                                 | 2000                       |

# NRWC Series

## Radial Leaded Aluminum Electrolytic Capacitors



### STANDARD VALUES, SPECIFICATIONS AND CASE SIZES (mm)

| Part Number         | Cap.<br>(μF) | W.V.<br>(Vdc) | Dissipation Factor<br>+20°C/120Hz | Ripple Current Rating (mA)<br>+105°C/120Hz | Max. ESR (Ω)<br>+20°C/120Hz | Load Life Hours<br>@+105°C |
|---------------------|--------------|---------------|-----------------------------------|--------------------------------------------|-----------------------------|----------------------------|
| NRWC221M35V8X11.5F  | 220          | 35            | 0.12                              | 255                                        | 0.91                        | 2,000                      |
| NRWC221M35V10X12.5F | 220          |               | 0.12                              | 300                                        | 0.91                        | 2,000                      |
| NRWC331M35V10X12.5F | 330          |               | 0.12                              | 400                                        | 0.61                        | 2,000                      |
| NRWC471M35V10X16F   | 470          |               | 0.12                              | 520                                        | 0.43                        | 2,000                      |
| NRWC561M35V10X20F   | 560          |               | 0.12                              | 540                                        | 0.36                        | 2,000                      |
| NRWC681M35V10X20F   | 680          |               | 0.12                              | 560                                        | 0.30                        | 2,000                      |
| NRWC821M35V12.5X20F | 820          |               | 0.12                              | 760                                        | 0.25                        | 2,000                      |
| NRWC102M35V12.5X20F | 1000         |               | 0.12                              | 830                                        | 0.20                        | 2,000                      |
| NRWC122M35V12.5X20F | 1200         |               | 0.12                              | 900                                        | 0.17                        | 2,000                      |
| NRWC152M35V12.5X25F | 1500         |               | 0.12                              | 960                                        | 0.14                        | 2,000                      |
| NRWC182M35V16X25F   | 1800         |               | 0.12                              | 1150                                       | 0.12                        | 2,000                      |
| NRWC222M35V16X25F   | 2200         |               | 0.14                              | 1290                                       | 0.11                        | 2,000                      |
| NRWC222M35V16X31.5F | 2200         |               | 0.14                              | 1350                                       | 0.11                        | 2,000                      |
| NRWC272M35V16X31.5F | 2700         |               | 0.14                              | 1480                                       | 0.09                        | 2,000                      |
| NRWC332M35V16X35.5F | 3300         |               | 0.16                              | 1650                                       | 0.09                        | 2,000                      |
| NRWC392M35V18X31.5F | 3900         |               | 0.16                              | 1820                                       | 0.07                        | 2,000                      |
| NRWC472M35V18X35.5F | 4700         |               | 0.18                              | 1900                                       | 0.07                        | 2,000                      |
| NRWC562M35V18X35.5F | 5600         |               | 0.20                              | 2000                                       | 0.06                        | 2,000                      |
| NRWC1R0M50V5X11F    | 1.0          | 50            | 0.10                              | 13                                         | 165.78                      | 2,000                      |
| NRWC2R2M50V5X11F    | 2.2          |               | 0.10                              | 20                                         | 75.35                       | 2,000                      |
| NRWC3R3M50V5X11F    | 3.3          |               | 0.10                              | 26                                         | 50.27                       | 2,000                      |
| NRWC4R7M50V5X11F    | 4.7          |               | 0.10                              | 32                                         | 35.30                       | 2,000                      |
| NRWC6R8M50V5X11F    | 6.8          |               | 0.10                              | 40                                         | 24.40                       | 2,000                      |
| NRWC100M50V5X11F    | 10           |               | 0.10                              | 48                                         | 16.59                       | 2,000                      |
| NRWC220M50V5X11F    | 22           |               | 0.10                              | 60                                         | 7.54                        | 2,000                      |
| NRWC220M50V6.3X11F  | 22           |               | 0.10                              | 70                                         | 7.54                        | 2,000                      |
| NRWC330M50V5X11F    | 33           |               | 0.10                              | 75                                         | 5.03                        | 2,000                      |
| NRWC330M50V6.3X11F  | 33           |               | 0.10                              | 90                                         | 5.03                        | 2,000                      |
| NRWC470M50V6.3X11F  | 47           |               | 0.10                              | 115                                        | 3.53                        | 2,000                      |
| NRWC680M50V6.3X11F  | 68           |               | 0.10                              | 130                                        | 2.44                        | 2,000                      |
| NRWC101M50V8X11.5F  | 100          |               | 0.10                              | 200                                        | 1.66                        | 2,000                      |
| NRWC121M50V8X16F    | 120          |               | 0.10                              | 220                                        | 1.39                        | 2,000                      |
| NRWC121M50V10X12.5F | 120          |               | 0.10                              | 225                                        | 1.39                        | 2,000                      |
| NRWC151M50V10X12.5F | 150          |               | 0.10                              | 245                                        | 1.11                        | 2,000                      |
| NRWC181M50V10X12.5F | 180          |               | 0.10                              | 260                                        | 0.93                        | 2,000                      |
| NRWC221M50V10X12.5F | 220          |               | 0.10                              | 345                                        | 0.76                        | 2,000                      |
| NRWC221M50V10X16F   | 220          |               | 0.10                              | 360                                        | 0.76                        | 2,000                      |
| NRWC331M50V10X16F   | 330          |               | 0.10                              | 450                                        | 0.51                        | 2,000                      |
| NRWC471M50V10X20F   | 470          |               | 0.10                              | 600                                        | 0.36                        | 2,000                      |
| NRWC471M50V12.5X20F | 470          |               | 0.10                              | 650                                        | 0.36                        | 2,000                      |
| NRWC561M50V12.5X20F | 560          |               | 0.10                              | 660                                        | 0.30                        | 2,000                      |
| NRWC681M50V12.5X20F | 680          |               | 0.10                              | 700                                        | 0.25                        | 2,000                      |
| NRWC821M50V12.5X25F | 820          |               | 0.10                              | 850                                        | 0.21                        | 2,000                      |
| NRWC102M50V12.5X25F | 1000         |               | 0.10                              | 890                                        | 0.17                        | 2,000                      |
| NRWC102M50V16X25F   | 1000         |               | 0.10                              | 1000                                       | 0.17                        | 2,000                      |
| NRWC122M50V16X25F   | 1200         |               | 0.10                              | 1150                                       | 0.14                        | 2,000                      |
| NRWC152M50V16X31.5F | 1500         |               | 0.10                              | 1300                                       | 0.12                        | 2,000                      |
| NRWC182M50V16X35.5F | 1800         |               | 0.10                              | 1480                                       | 0.10                        | 2,000                      |
| NRWC222M50V16X35.5F | 2200         |               | 0.12                              | 1530                                       | 0.10                        | 2,000                      |
| NRWC272M50V18X35.5F | 2700         |               | 0.12                              | 1590                                       | 0.08                        | 2,000                      |
| NRWC332M50V18X35.5F | 3300         |               | 0.14                              | 1750                                       | 0.08                        | 2,000                      |
| NRWC1R0M63V5X11F    | 1.0          | 63            | 0.09                              | 13                                         | 149.29                      | 2,000                      |
| NRWC2R2M63V5X11F    | 2.2          |               | 0.09                              | 20                                         | 67.82                       | 2,000                      |
| NRWC3R3M63V5X11F    | 3.3          |               | 0.09                              | 28                                         | 45.21                       | 2,000                      |
| NRWC4R7M63V5X11F    | 4.7          |               | 0.09                              | 32                                         | 31.77                       | 2,000                      |
| NRWC6R8M63V5X11F    | 6.8          |               | 0.09                              | 40                                         | 21.96                       | 2,000                      |
| NRWC100M63V5X11F    | 10           |               | 0.09                              | 42                                         | 14.93                       | 2,000                      |
| NRWC100M63V6.3X11F  | 10           |               | 0.09                              | 48                                         | 14.93                       | 2,000                      |
| NRWC220M63V6.3X11F  | 22           |               | 0.09                              | 82                                         | 6.79                        | 2,000                      |

# NRWC Series

## Radial Leaded Aluminum Electrolytic Capacitors



### STANDARD VALUES, SPECIFICATIONS AND CASE SIZES (mm)

| Part Number          | Cap.<br>(μF) | W.V.<br>(Vdc) | Dissipation Factor<br>+20°C/120Hz | Ripple Current Rating (mA)<br>+105°C/120Hz | Max. ESR (Ω)<br>+20°C/120Hz | Load Life Hours<br>@+105°C |
|----------------------|--------------|---------------|-----------------------------------|--------------------------------------------|-----------------------------|----------------------------|
| NRWC330M63V6.3X11F   | 33           | 63            | 0.09                              | 100                                        | 4.53                        | 2,000                      |
| NRWC470M63V6.3X11F   | 47           |               | 0.09                              | 125                                        | 3.18                        | 2,000                      |
| NRWC470M63V8X11.5F   | 47           |               | 0.09                              | 140                                        | 3.18                        | 2,000                      |
| NRWC680M63V8X11.5F   | 68           |               | 0.09                              | 155                                        | 2.20                        | 2,000                      |
| NRWC101M63V10X12.5F  | 100          |               | 0.09                              | 230                                        | 1.50                        | 2,000                      |
| NRWC121M63V10X16F    | 120          |               | 0.09                              | 255                                        | 1.25                        | 2,000                      |
| NRWC151M63V10X16F    | 150          |               | 0.09                              | 270                                        | 1.00                        | 2,000                      |
| NRWC181M63V10X16F    | 180          |               | 0.09                              | 310                                        | 0.83                        | 2,000                      |
| NRWC221M63V10X16F    | 220          |               | 0.09                              | 375                                        | 0.68                        | 2,000                      |
| NRWC221M63V10X20F    | 220          |               | 0.09                              | 400                                        | 0.68                        | 2,000                      |
| NRWC331M63V12.5X20F  | 330          |               | 0.09                              | 580                                        | 0.46                        | 2,000                      |
| NRWC471M63V12.5X20F  | 470          |               | 0.09                              | 690                                        | 0.32                        | 2,000                      |
| NRWC561M63V12.5X25F  | 560          |               | 0.09                              | 770                                        | 0.27                        | 2,000                      |
| NRWC681M63V16X25F    | 680          |               | 0.09                              | 880                                        | 0.22                        | 2,000                      |
| NRWC821M63V16X25F    | 820          |               | 0.09                              | 920                                        | 0.19                        | 2,000                      |
| NRWC102M63V16X31.5F  | 1000         |               | 0.09                              | 1185                                       | 0.15                        | 2,000                      |
| NRWC122M63V16X35.5F  | 1200         |               | 0.09                              | 1200                                       | 0.13                        | 2,000                      |
| NRWC152M63V18X31.5F  | 1500         |               | 0.09                              | 1350                                       | 0.10                        | 2,000                      |
| NRWC1R0M100V5X11F    | 1.0          | 100           | 0.08                              | 15                                         | 132.62                      | 2,000                      |
| NRWC4R7M100V5X11F    | 4.7          |               | 0.08                              | 35                                         | 28.24                       | 2,000                      |
| NRWC100M100V6.3X11F  | 10           |               | 0.08                              | 56                                         | 13.27                       | 2,000                      |
| NRWC220M100V6.3X11F  | 22           |               | 0.08                              | 75                                         | 6.04                        | 2,000                      |
| NRWC220M100V8X11.5F  | 22           |               | 0.08                              | 90                                         | 6.04                        | 2,000                      |
| NRWC330M100V8X11.5F  | 33           |               | 0.08                              | 140                                        | 4.03                        | 2,000                      |
| NRWC470M100V10X12.5F | 47           |               | 0.08                              | 170                                        | 2.83                        | 2,000                      |
| NRWC101M100V10X20F   | 100          |               | 0.08                              | 280                                        | 1.33                        | 2,000                      |
| NRWC221M100V12.5X25F | 220          |               | 0.08                              | 520                                        | 0.61                        | 2,000                      |
| NRWC331M100V16X25F   | 330          |               | 0.08                              | 690                                        | 0.41                        | 2,000                      |
| NRWC471M100V16X25F   | 470          |               | 0.08                              | 820                                        | 0.29                        | 2,000                      |
| NRWC471M100V16X31.5F | 470          |               | 0.08                              | 860                                        | 0.29                        | 2,000                      |
| NRWC681M100V16X35.5F | 680          |               | 0.08                              | 920                                        | 0.20                        | 2,000                      |
| NRWC681M100V18X31.5F | 680          |               | 0.08                              | 950                                        | 0.20                        | 2,000                      |
| NRWC100M160V8X11.5F  | 10           | 160           | 0.12                              | 63                                         | 19.91                       | 2,000                      |
| NRWC100M160V10X12.5F | 10           |               | 0.12                              | 75                                         | 19.91                       | 2,000                      |
| NRWC680M160V12.5X20F | 68           |               | 0.12                              | 260                                        | 2.93                        | 2,000                      |
| NRWC101M160V12.5X25F | 100          |               | 0.12                              | 310                                        | 2.00                        | 2,000                      |
| NRWC101M160V16X25F   | 100          |               | 0.12                              | 330                                        | 2.00                        | 2,000                      |
| NRWC181M160V16X25F   | 180          |               | 0.12                              | 550                                        | 1.11                        | 2,000                      |
| NRWC221M160V16X31.5F | 220          |               | 0.12                              | 560                                        | 0.91                        | 2,000                      |
| NRWC331M160V18X31.5F | 330          |               | 0.12                              | 660                                        | 0.61                        | 2,000                      |
| NRWC4R7M200V6.3X11F  | 4.7          | 200           | 0.12                              | 42                                         | 42.35                       | 2,000                      |
| NRWC100M200V8X11.5F  | 10           |               | 0.12                              | 78                                         | 19.91                       | 2,000                      |
| NRWC220M200V10X16F   | 22           |               | 0.12                              | 125                                        | 9.05                        | 2,000                      |
| NRWC330M200V10X16F   | 33           |               | 0.12                              | 160                                        | 6.04                        | 2,000                      |
| NRWC330M200V10X20F   | 33           |               | 0.12                              | 180                                        | 6.04                        | 2,000                      |
| NRWC680M200V12.5X20F | 68           |               | 0.12                              | 270                                        | 2.93                        | 2,000                      |
| NRWC680M200V12.5X25F | 68           |               | 0.12                              | 300                                        | 2.93                        | 2,000                      |
| NRWC101M200V12.5X25F | 100          |               | 0.12                              | 320                                        | 2.00                        | 2,000                      |
| NRWC101M200V16X25F   | 100          |               | 0.12                              | 345                                        | 2.00                        | 2,000                      |
| NRWC151M200V16X25F   | 150          |               | 0.12                              | 440                                        | 1.33                        | 2,000                      |
| NRWC221M200V18X31.5F | 220          |               | 0.12                              | 690                                        | 0.91                        | 2,000                      |
| NRWC331M200V18X35.5F | 330          |               | 0.12                              | 750                                        | 0.61                        | 2,000                      |
| NRWC471M200V18X40F   | 470          |               | 0.12                              | 840                                        | 0.43                        | 2,000                      |
| NRWC4R7M250V8X11.5F  | 4.7          | 250           | 0.12                              | 46                                         | 42.35                       | 2,000                      |
| NRWC100M250V8X11.5F  | 10           |               | 0.12                              | 68                                         | 19.91                       | 2,000                      |
| NRWC100M250V10X12.5F | 10           |               | 0.12                              | 80                                         | 19.91                       | 2,000                      |
| NRWC220M250V10X16F   | 22           |               | 0.12                              | 110                                        | 9.05                        | 2,000                      |
| NRWC220M250V10X20F   | 22           |               | 0.12                              | 125                                        | 9.05                        | 2,000                      |
| NRWC220M250V12.5X20F | 22           |               | 0.12                              | 150                                        | 9.05                        | 2,000                      |

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# NRWC Series

## Radial Leaded Aluminum Electrolytic Capacitors



### STANDARD VALUES, SPECIFICATIONS AND CASE SIZES (mm)

| Part Number          | Cap. (μF) | W.V. (Vdc) | Dissipation Factor +20°C/120Hz | Ripple Current Rating (mA) +105°C/120Hz | Max. ESR (Ω) +20°C/120Hz | Load Life Hours @+105°C |
|----------------------|-----------|------------|--------------------------------|-----------------------------------------|--------------------------|-------------------------|
| NRWC470M250V12.5X20F | 47        | 250        | 0.12                           | 230                                     | 4.24                     | 2,000                   |
| NRWC470M250V12.5X25F | 47        |            | 0.12                           | 240                                     | 4.24                     | 2,000                   |
| NRWC680M250V16X25F   | 68        |            | 0.12                           | 355                                     | 2.93                     | 2,000                   |
| NRWC101M250V16X25F   | 100       |            | 0.12                           | 375                                     | 2.00                     | 2,000                   |
| NRWC101M250V16X31.5F | 100       |            | 0.12                           | 395                                     | 2.00                     | 2,000                   |
| NRWC151M250V18X31.5F | 150       |            | 0.12                           | 460                                     | 1.33                     | 2,000                   |
| NRWC221M250V18X35.5F | 220       |            | 0.12                           | 650                                     | 0.91                     | 2,000                   |
| NRWC330M350V12.5X20F | 33        | 350        | 0.15                           | 180                                     | 7.54                     | 2,000                   |
| NRWC1R0M400V6.3X11F  | 1.0       | 400        | 0.15                           | 17                                      | 248.67                   | 2,000                   |
| NRWC2R2M400V8X11.5F  | 2.2       |            | 0.15                           | 35                                      | 113.03                   | 2,000                   |
| NRWC2R2M400V10X12.5F | 2.2       |            | 0.15                           | 40                                      | 113.03                   | 2,000                   |
| NRWC4R7M400V8X11.5F  | 4.7       |            | 0.15                           | 48                                      | 52.91                    | 2,000                   |
| NRWC4R7M400V10X12.5F | 4.7       |            | 0.15                           | 55                                      | 52.91                    | 2,000                   |
| NRWC6R8M400V8X14F    | 6.8       |            | 0.15                           | 75                                      | 36.59                    | 2,000                   |
| NRWC6R8M400V10X12.5F | 6.8       |            | 0.15                           | 82                                      | 36.59                    | 2,000                   |
| NRWC6R8M400V10X16F   | 6.8       |            | 0.15                           | 90                                      | 36.59                    | 2,000                   |
| NRWC100M400V10X14F   | 10        |            | 0.15                           | 104                                     | 24.89                    | 2,000                   |
| NRWC100M400V10X16F   | 10        |            | 0.15                           | 110                                     | 24.89                    | 2,000                   |
| NRWC100M400V10X20F   | 10        |            | 0.15                           | 125                                     | 24.89                    | 2,000                   |
| NRWC220M400V10X25F   | 22        |            | 0.15                           | 162                                     | 11.31                    | 2,000                   |
| NRWC220M400V12.5X20F | 22        |            | 0.15                           | 170                                     | 11.31                    | 2,000                   |
| NRWC220M400V12.5X25F | 22        |            | 0.15                           | 190                                     | 11.31                    | 2,000                   |
| NRWC330M400V12.5X20F | 33        |            | 0.15                           | 235                                     | 7.54                     | 2,000                   |
| NRWC330M400V12.5X25F | 33        |            | 0.15                           | 260                                     | 7.54                     | 2,000                   |
| NRWC330M400V16X25F   | 33        |            | 0.15                           | 290                                     | 7.54                     | 2,000                   |
| NRWC470M400V16X25F   | 47        |            | 0.15                           | 300                                     | 5.30                     | 2,000                   |
| NRWC470M400V16X31.5F | 47        |            | 0.15                           | 360                                     | 5.30                     | 2,000                   |
| NRWC470M400V18X25F   | 47        |            | 0.15                           | 320                                     | 5.30                     | 2,000                   |
| NRWC560M400V16X25F   | 56        |            | 0.15                           | 360                                     | 4.45                     | 2,000                   |
| NRWC680M400V16X25F   | 68        |            | 0.15                           | 410                                     | 3.66                     | 2,000                   |
| NRWC680M400V16X31.5F | 68        |            | 0.15                           | 450                                     | 3.66                     | 2,000                   |
| NRWC680M400V18X25F   | 68        |            | 0.15                           | 440                                     | 3.66                     | 2,000                   |
| NRWC680M400V18X31.5F | 68        |            | 0.15                           | 500                                     | 3.66                     | 2,000                   |
| NRWC820M400V16X31.5F | 82        |            | 0.15                           | 480                                     | 3.04                     | 2,000                   |
| NRWC820M400V18X25F   | 82        |            | 0.15                           | 470                                     | 3.04                     | 2,000                   |
| NRWC820M400V18X31.5F | 82        |            | 0.15                           | 520                                     | 3.04                     | 2,000                   |
| NRWC101M400V16X35.5F | 100       |            | 0.15                           | 520                                     | 2.49                     | 2,000                   |
| NRWC101M400V18X31.5F | 100       |            | 0.15                           | 530                                     | 2.49                     | 2,000                   |
| NRWC101M400V18X35.5F | 100       |            | 0.15                           | 550                                     | 2.49                     | 2,000                   |
| NRWC121M400V18X31.5F | 120       |            | 0.15                           | 550                                     | 2.08                     | 2,000                   |
| NRWC121M400V18X35.5F | 120       |            | 0.15                           | 580                                     | 2.08                     | 2,000                   |
| NRWC151M400V18X35.5F | 150       |            | 0.15                           | 610                                     | 1.66                     | 2,000                   |
| NRWC181M400V18X45F   | 180       |            | 0.15                           | 700                                     | 1.39                     | 2,000                   |
| NRWC101M420V18X31.5F | 100       | 420        | 0.17                           | 535                                     | 2.82                     | 2,000                   |
| NRWC101M420V18X35.5F | 100       |            | 0.17                           | 555                                     | 2.82                     | 2,000                   |
| NRWC121M420V18X31.5F | 120       |            | 0.17                           | 560                                     | 2.35                     | 2,000                   |
| NRWC121M420V18X35.5F | 120       |            | 0.17                           | 590                                     | 2.35                     | 2,000                   |
| NRWC151M420V18X35.5F | 150       |            | 0.17                           | 615                                     | 1.88                     | 2,000                   |
| NRWC151M420V18X40F   | 150       |            | 0.17                           | 660                                     | 1.88                     | 2,000                   |
| NRWC1R0M450V8X11.5F  | 1.0       | 450        | 0.17                           | 20                                      | 281.83                   | 2,000                   |
| NRWC2R2M450V10X12.5F | 2.2       |            | 0.17                           | 35                                      | 128.10                   | 2,000                   |
| NRWC3R3M450V10X12.5F | 3.3       |            | 0.17                           | 38                                      | 85.40                    | 2,000                   |
| NRWC3R3M450V10X16F   | 3.3       |            | 0.17                           | 42                                      | 85.40                    | 2,000                   |
| NRWC4R7M450V8X16F    | 4.7       |            | 0.17                           | 44                                      | 59.95                    | 2,000                   |
| NRWC4R7M450V10X16F   | 4.7       |            | 0.17                           | 50                                      | 59.96                    | 2,000                   |
| NRWC4R7M450V10X12.5F | 4.7       |            | 0.17                           | 45                                      | 59.96                    | 2,000                   |
| NRWC6R8M450V10X12.5F | 6.8       |            | 0.17                           | 58                                      | 41.44                    | 2,000                   |
| NRWC6R8M450V10X16F   | 6.8       |            | 0.17                           | 65                                      | 41.44                    | 2,000                   |
| NRWC6R8M450V10X20F   | 6.8       |            | 0.17                           | 72                                      | 41.44                    | 2,000                   |

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# NRWC Series

## Radial Leaded Aluminum Electrolytic Capacitors



### STANDARD VALUES, SPECIFICATIONS AND CASE SIZES (mm)

| Part Number          | Cap. (μF) | W.V. (Vdc) | Dissipation Factor +20°C/120Hz | Ripple Current Rating (mA) +105°C/120Hz | Max. ESR (Ω) +20°C/120Hz | Load Life Hours @+105°C |
|----------------------|-----------|------------|--------------------------------|-----------------------------------------|--------------------------|-------------------------|
| NRWC100M450V10X16F   | 10        | 450        | 0.17                           | 80                                      | 28.20                    | 2,000                   |
| NRWC100M450V10X20F   | 10        |            | 0.17                           | 92                                      | 28.20                    | 2,000                   |
| NRWC100M450V12.5X20F | 10        |            | 0.17                           | 98                                      | 28.20                    | 2,000                   |
| NRWC220M450V12.5X20F | 22        |            | 0.17                           | 165                                     | 12.82                    | 2,000                   |
| NRWC220M450V12.5X25F | 22        |            | 0.17                           | 180                                     | 12.82                    | 2,000                   |
| NRWC220M450V16X25F   | 22        |            | 0.17                           | 200                                     | 12.82                    | 2,000                   |
| NRWC330M450V12.5X25F | 33        |            | 0.17                           | 185                                     | 8.55                     | 2,000                   |
| NRWC330M450V16X25F   | 33        |            | 0.17                           | 210                                     | 8.55                     | 2,000                   |
| NRWC330M450V16X31.5F | 33        |            | 0.17                           | 230                                     | 8.55                     | 2,000                   |
| NRWC470M450V16X25F   | 47        |            | 0.17                           | 305                                     | 6.00                     | 2,000                   |
| NRWC470M450V16X31.5F | 47        |            | 0.17                           | 340                                     | 6.00                     | 2,000                   |
| NRWC470M450V16X35.5F | 47        |            | 0.17                           | 380                                     | 6.00                     | 2,000                   |
| NRWC470M450V18X25F   | 47        |            | 0.17                           | 350                                     | 6.00                     | 2,000                   |
| NRWC470M450V18X31.5F | 47        |            | 0.17                           | 360                                     | 6.00                     | 2,000                   |
| NRWC560M450V16X31.5F | 56        |            | 0.17                           | 370                                     | 5.04                     | 2,000                   |
| NRWC680M450V16X31.5F | 68        |            | 0.17                           | 425                                     | 4.15                     | 2,000                   |
| NRWC680M450V16X35.5F | 68        |            | 0.17                           | 450                                     | 4.15                     | 2,000                   |
| NRWC680M450V18X25F   | 68        |            | 0.17                           | 410                                     | 4.15                     | 2,000                   |
| NRWC680M450V18X31.5F | 68        |            | 0.17                           | 460                                     | 4.15                     | 2,000                   |
| NRWC680M450V18X35.5F | 68        |            | 0.17                           | 470                                     | 4.15                     | 2,000                   |
| NRWC820M450V18X31.5F | 82        |            | 0.17                           | 465                                     | 3.44                     | 2,000                   |
| NRWC820M450V18X35.5F | 82        |            | 0.17                           | 480                                     | 3.44                     | 2,000                   |
| NRWC101M450V18X31.5F | 100       |            | 0.17                           | 500                                     | 2.82                     | 2,000                   |
| NRWC101M450V18X35.5F | 100       |            | 0.17                           | 525                                     | 2.82                     | 2,000                   |
| NRWC121M450V18X40F   | 120       |            | 0.17                           | 580                                     | 2.35                     | 2,000                   |
| NRWC151M450V18X45F   | 150       |            | 0.17                           | 690                                     | 1.88                     | 2,000                   |
| NRWC3R3M500V10X20F   | 3.3       | 500        | 0.22                           | 49                                      | 110.52                   | 2,000                   |
| NRWC100M500V10X20F   | 10        |            | 0.22                           | 90                                      | 36.50                    | 2,000                   |
| NRWC100M500V12.5X20F | 10        |            | 0.22                           | 98                                      | 36.50                    | 2,000                   |
| NRWC220M500V12.5X25F | 22        |            | 0.22                           | 160                                     | 16.59                    | 2,000                   |
| NRWC220M500V16X25F   | 22        |            | 0.22                           | 180                                     | 16.59                    | 2,000                   |
| NRWC470M500V16X35.5F | 47        |            | 0.22                           | 360                                     | 7.77                     | 2,000                   |
| NRWC470M500V18X31.5F | 47        |            | 0.22                           | 360                                     | 7.77                     | 2,000                   |
| NRWC560M500V16X35.5F | 56        |            | 0.22                           | 390                                     | 6.52                     | 2,000                   |
| NRWC560M500V18X31.5F | 56        |            | 0.22                           | 400                                     | 6.52                     | 2,000                   |
| NRWC680M500V18X35.5F | 68        |            | 0.22                           | 460                                     | 5.37                     | 2,000                   |
| NRWC820M500V16X45F   | 82        |            | 0.22                           | 490                                     | 4.46                     | 2,000                   |
| NRWC820M500V18X35.5F | 82        |            | 0.22                           | 470                                     | 4.46                     | 2,000                   |
| NRWC101M500V18X40F   | 100       |            | 0.22                           | 550                                     | 3.65                     | 2,000                   |

### RIPPLE CURRENT FREQUENCY CORRECTION FACTOR

| Cap. (μF)      | 60Hz | 120Hz | 400Hz | 1KHz | 10KHz | 50K ~ 100K |
|----------------|------|-------|-------|------|-------|------------|
| 1.0 ~ 10       | 0.8  | 1.00  | 1.30  | 1.45 | 1.65  | 1.70       |
| 22 ~ 100       | 0.8  | 1.00  | 1.23  | 1.36 | 1.48  | 1.53       |
| 120 ~ 1000     | 0.8  | 1.00  | 1.16  | 1.25 | 1.35  | 1.38       |
| 1,200 ~ 18,000 | 0.8  | 1.00  | 1.11  | 1.17 | 1.25  | 1.28       |

### PRECAUTIONS

Please review the notes on correct use, safety and precautions found at <https://www.niccomp.com/resource/files/aluminum/AlumApplInfoCautions.pdf>  
If in doubt or uncertainty, please review your specific application - process details with  
NIC's technical support personnel: [tpmg@niccomp.com](mailto:tpmg@niccomp.com)