

# ALUMINUM ELECTROLYTIC CAPACITORS

**HU3 Series** • Life rating to 2,000 hours at 105°C • Temperature range -40°C to +105°C

**Standard Size** • Approximately 20% to 30% smaller than its HUR and HVR predecessors



- This model offers R: 2-Claw Terminal as standard.
  - S: 4-Claw Terminal or U: Straight Short Terminal is available with Case Sizes of 35 X 50, 40 X 36, 40 X 41 and 40 X 51.
  - R: 2-Claw Terminal is also available with Case Size 35 X 50.
- Place the appropriate designation in the Part Number. (R is shown except for Case Sizes listed above, then S is shown).

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

Ripple Current Correction Coefficient

| Temperature (°C) | 40  | 60  | 70  | 85  | 105 |
|------------------|-----|-----|-----|-----|-----|
| 16 ~ 450V        | 2.5 | 2.2 | 2.0 | 1.8 | 1.0 |

| Frequency (Hz) | 50/60 | 120 | 300 | 1K  | ≥10K |
|----------------|-------|-----|-----|-----|------|
| 16 ~ 100V      | 0.7   | 1.0 | 1.1 | 1.2 | 1.2  |
| 160 ~ 450V     | 0.7   | 1.0 | 1.1 | 1.3 | 1.4  |

| Rated Voltage (WVDC)   | Part Number | Capacitance | Case Size ØD x L (mm) | Maximum Ripple Current (A rms) @105° C, 120Hz | Typical ESR (mΩ) @20° C, 120Hz | Typical ESL (nH) |
|------------------------|-------------|-------------|-----------------------|---|--------------------------------|------------------|
| 16 Volts<br>(Code: 1C) | HU31C472MRX | 4,700       | 22 X 25               | 0.93  | 95                             | 10               |
|                        | HU31C682MRX | 6,800       | 22 X 35               | 1.27  | 65                             | 13               |
|                        | HU31C682MRY | 6,800       | 25 X 30               | 1.26  | 65                             | 13               |
|                        | HU31C103MRX | 10,000      | 22 X 45               | 1.43  | 45                             | 13               |
|                        | HU31C103MRY | 10,000      | 25 X 35               | 1.36  | 45                             | 13               |
|                        | HU31C103MRZ | 10,000      | 30 X 25               | 1.30  | 45                             | 13               |
|                        | HU31C153MRY | 15,000      | 25 X 45               | 1.84  | 30                             | 15               |
|                        | HU31C153MRZ | 15,000      | 30 X 35               | 1.77  | 30                             | 15               |
|                        | HU31C153MRA | 15,000      | 35 X 30               | 1.78  | 30                             | 15               |
|                        | HU31C223MRZ | 22,000      | 30 X 45               | 2.36  | 20                             | 15               |
|                        | HU31C223MRA | 22,000      | 35 X 35               | 2.27  | 20                             | 15               |
|                        | HU31C333MSA | 33,000      | 35 X 50               | 2.95  | 15                             | 20               |
| 25 Volts<br>(Code: 1E) | HU31E332MRX | 3,300       | 22 X 25               | 0.87  | 130                            | 10               |
|                        | HU31E472MRX | 4,700       | 22 X 30               | 1.00  | 90                             | 13               |
|                        | HU31E472MRY | 4,700       | 25 X 25               | 0.98  | 90                             | 13               |
|                        | HU31E682MRX | 6,800       | 22 X 35               | 1.27  | 65                             | 13               |
|                        | HU31E682MRY | 6,800       | 25 X 30               | 1.27  | 65                             | 13               |
|                        | HU31E682MRZ | 6,800       | 30 X 25               | 1.27  | 65                             | 13               |
|                        | HU31E103MRX | 10,000      | 22 X 45               | 1.43  | 45                             | 15               |
|                        | HU31E103MRY | 10,000      | 25 X 35               | 1.38  | 45                             | 15               |
|                        | HU31E103MRZ | 10,000      | 30 X 30               | 1.38  | 45                             | 15               |
|                        | HU31E103MRA | 10,000      | 35 X 25               | 1.38  | 45                             | 15               |
|                        | HU31E153MRY | 15,000      | 25 X 45               | 1.84  | 30                             | 15               |
|                        | HU31E153MRZ | 15,000      | 30 X 35               | 1.78  | 30                             | 15               |
|                        | HU31E153MRA | 15,000      | 35 X 30               | 1.78  | 30                             | 15               |
|                        | HU31E223MRZ | 22,000      | 30 X 45               | 2.36  | 20                             | 20               |
|                        | HU31E223MRA | 22,000      | 35 X 40               | 2.38  | 20                             | 20               |
| HU31E333MRA            | 33,000      | 35 X 50     | 2.95                  | 15  | 25                             |                  |

# ALUMINUM ELECTROLYTIC CAPACITORS

## HU3 Series

•Life rating to 2,000 hours at 105°C

•Temperature range -40°C to +105°C

| Rated Voltage (WVDC)   | Part Number | Capacitance | Case Size ØD x L (mm) | Maximum Ripple Current (A rms) @105° C, 120Hz | Typical ESR (mΩ) @20° C, 120Hz | Typical ESL (nH) |
|------------------------|-------------|-------------|-----------------------|---|--------------------------------|------------------|
| 35 Volts<br>(Code: 1V) | HU31V222MRX | 2,200       | 22 X 25               | 0.71  | 160                            | 13               |
|                        | HU31V332MRX | 3,300       | 22 X 30               | 0.93  | 105                            | 15               |
|                        | HU31V332MRY | 3,300       | 25 X 25               | 0.92  | 105                            | 15               |
|                        | HU31V472MRX | 4,700       | 22 X 35               | 1.05  | 75                             | 15               |
|                        | HU31V472MRY | 4,700       | 22 X 30               | 1.05  | 75                             | 15               |
|                        | HU31V472MRZ | 4,700       | 30 X 25               | 1.05  | 75                             | 15               |
|                        | HU31V682MRX | 6,800       | 22 X 50               | 1.46  | 55                             | 20               |
|                        | HU31V682MRY | 6,800       | 25 X 40               | 1.40  | 55                             | 20               |
|                        | HU31V682MRZ | 6,800       | 30 X 30               | 1.34  | 55                             | 20               |
|                        | HU31V682MRA | 6,800       | 35 X 25               | 1.34  | 55                             | 20               |
|                        | HU31V103MRY | 10,000      | 25 X 50               | 1.57  | 35                             | 25               |
|                        | HU31V103MRZ | 10,000      | 30 X 35               | 1.46  | 35                             | 25               |
|                        | HU31V103MRA | 10,000      | 35 X 30               | 1.46  | 35                             | 25               |
|                        | HU31V153MRZ | 15,000      | 30 X 50               | 2.03  | 25                             | 30               |
|                        | HU31V153MRA | 15,000      | 35 X 40               | 1.96  | 25                             | 30               |
| 50 Volts<br>(Code: 1H) | HU31H152MRX | 1,500       | 22 X 25               | 0.68  | 215                            | 13               |
|                        | HU31H222MRX | 2,200       | 22 X 30               | 0.76  | 145                            | 15               |
|                        | HU31H222MRY | 2,200       | 25 X 25               | 0.75  | 145                            | 15               |
|                        | HU31H332MRX | 3,300       | 22 X 35               | 0.99  | 100                            | 15               |
|                        | HU31H332MRY | 3,300       | 25 X 30               | 0.98  | 100                            | 15               |
|                        | HU31H332MRZ | 3,300       | 30 X 25               | 0.99  | 100                            | 15               |
|                        | HU31H472MRX | 4,700       | 22 X 45               | 1.16  | 70                             | 20               |
|                        | HU31H472MRY | 4,700       | 25 X 35               | 1.11  | 70                             | 20               |
|                        | HU31H472MRZ | 4,700       | 30 X 30               | 1.12  | 70                             | 20               |
|                        | HU31H472MRA | 4,700       | 35 X 25               | 1.12  | 70                             | 20               |
|                        | HU31H682MRY | 6,800       | 25 X 50               | 1.53  | 50                             | 25               |
|                        | HU31H682MRZ | 6,800       | 30 X 35               | 1.42  | 50                             | 25               |
|                        | HU31H682MRA | 6,800       | 35 X 30               | 1.42  | 50                             | 25               |
|                        | HU31H103MRZ | 10,000      | 30 X 45               | 1.59  | 35                             | 30               |
|                        | HU31H103MRA | 10,000      | 35 X 40               | 1.60  | 35                             | 30               |
| HU31H153MRA            | 15,000      | 35 X 50     | 2.13                  | 25  | 33                             |                  |
| 63 Volts<br>(Code: 1J) | HU31J102MRX | 1,000       | 22 X 25               | 0.56  | 265                            | 15               |
|                        | HU31J152MRX | 1,500       | 22 X 30               | 0.73  | 180                            | 15               |
|                        | HU31J152MRY | 1,500       | 25 X 25               | 0.72  | 180                            | 15               |
|                        | HU31J222MRX | 2,200       | 22 X 35               | 0.81  | 120                            | 20               |
|                        | HU31J222MRY | 2,200       | 25 X 30               | 0.80  | 120                            | 20               |
|                        | HU31J222MRZ | 2,200       | 30 X 25               | 0.81  | 120                            | 20               |
|                        | HU31J332MRX | 3,300       | 22 X 45               | 1.09  | 80                             | 25               |
|                        | HU31J332MRY | 3,300       | 25 X 40               | 1.09  | 80                             | 25               |
|                        | HU31J332MRZ | 3,300       | 30 X 30               | 1.05  | 80                             | 25               |
|                        | HU31J332MRA | 3,300       | 35 X 25               | 1.05  | 80                             | 25               |
|                        | HU31J472MRY | 4,700       | 25 X 50               | 1.27  | 60                             | 30               |
|                        | HU31J472MRZ | 4,700       | 30 X 35               | 1.18  | 60                             | 30               |
|                        | HU31J472MRA | 4,700       | 35 X 30               | 1.18  | 60                             | 30               |
|                        | HU31J682MRZ | 6,800       | 30 X 45               | 1.55  | 40                             | 33               |
|                        | HU31J682MRA | 6,800       | 35 X 40               | 1.56  | 40                             | 33               |
| HU31J103MRA            | 10,000      | 35 X 50     | 1.74                  | 30  | 35                             |                  |

For nonstandard products contact Hitachi AIC.

**HITACHI AIC**

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# ALUMINUM ELECTROLYTIC CAPACITORS

## HU3 Series

•Life rating to 2,000 hours at 105°C

•Temperature range -40°C to +105°C

| Rated Voltage (WVDC)    | Part Number | Capacitance | Case Size ØD x L (mm) | Maximum Ripple Current (A rms) @105°C, 120Hz | Typical ESR (mΩ) @20°C, 120Hz | Typical ESL (nH) |
|-------------------------|-------------|-------------|-----------------------|--|-------------------------------|------------------|
| 80 Volts<br>(Code: 1K)  | HU31K102MRX | 1,000       | 22 X 30               | 0.59   | 230                           | 15               |
|                         | HU31K102MRY | 1,000       | 25 X 25               | 0.59   | 230                           | 15               |
|                         | HU31K152MRX | 1,500       | 22 X 35               | 0.77   | 155                           | 20               |
|                         | HU31K152MRY | 1,500       | 25 X 30               | 0.77   | 155                           | 20               |
|                         | HU31K152MRZ | 1,500       | 30 X 25               | 0.77   | 155                           | 20               |
|                         | HU31K222MRX | 2,200       | 22 X 50               | 0.93   | 105                           | 25               |
|                         | HU31K222MRY | 2,200       | 25 X 40               | 0.89   | 105                           | 25               |
|                         | HU31K222MRZ | 2,200       | 30 X 30               | 0.85   | 105                           | 25               |
|                         | HU31K222MRA | 2,200       | 35 X 25               | 0.85   | 105                           | 25               |
|                         | HU31K332MRY | 3,300       | 25 X 50               | 1.19   | 70                            | 30               |
|                         | HU31K332MRZ | 3,300       | 30 X 40               | 1.16   | 70                            | 30               |
|                         | HU31K332MRA | 3,300       | 35 X 30               | 1.11   | 70                            | 30               |
|                         | HU31K472MRZ | 4,700       | 30 X 50               | 1.34   | 50                            | 33               |
|                         | HU31K472MRA | 4,700       | 35 X 40               | 1.30   | 50                            | 33               |
| HU31K682MSA             | 6,800       | 35 X 50     | 1.69                  | 35   | 35                            |                  |
| 100 Volts<br>(Code: 2A) | HU32A102MRX | 1,000       | 22 X 30               | 0.59   | 180                           | 20               |
|                         | HU32A102MRY | 1,000       | 25 X 25               | 0.59   | 180                           | 20               |
|                         | HU32A152MRX | 1,500       | 22 X 40               | 0.81   | 130                           | 25               |
|                         | HU32A152MRY | 1,500       | 25 X 35               | 0.81   | 130                           | 25               |
|                         | HU32A152MRZ | 1,500       | 30 X 25               | 0.77   | 130                           | 25               |
|                         | HU32A222MRY | 2,200       | 25 X 45               | 0.93   | 90                            | 30               |
|                         | HU32A222MRZ | 2,200       | 30 X 35               | 0.90   | 90                            | 30               |
|                         | HU32A332MRZ | 3,300       | 30 X 45               | 1.21   | 60                            | 33               |
|                         | HU32A332MRA | 3,300       | 35 X 36               | 1.16   | 60                            | 33               |
|                         | HU32A472MRA | 4,700       | 35 X 45               | 1.35   | 45                            | 35               |
| 160 Volts<br>(Code: 2C) | HU32C331MRX | 330         | 22 X 25               | 0.98   | 430                           | 6                |
|                         | HU32C391MRX | 390         | 22 X 30               | 1.10   | 365                           | 6                |
|                         | HU32C391MRY | 390         | 25 X 25               | 1.09   | 365                           | 6                |
|                         | HU32C471MRX | 470         | 22 X 30               | 1.21   | 305                           | 6                |
|                         | HU32C471MRY | 470         | 25 X 25               | 1.19   | 305                           | 6                |
|                         | HU32C561MRX | 560         | 22 X 35               | 1.40   | 255                           | 7                |
|                         | HU32C561MRY | 560         | 25 X 30               | 1.40   | 255                           | 7                |
|                         | HU32C561MRZ | 560         | 30 X 25               | 1.40   | 255                           | 7                |
|                         | HU32C681MRX | 680         | 22 X 40               | 1.62   | 210                           | 7                |
|                         | HU32C681MRY | 680         | 25 X 35               | 1.61   | 210                           | 7                |
|                         | HU32C681MRZ | 680         | 30 X 25               | 1.54   | 210                           | 7                |
|                         | HU32C821MRX | 820         | 22 X 45               | 1.86   | 175                           | 8                |
|                         | HU32C821MRY | 820         | 25 X 40               | 1.86   | 175                           | 8                |
|                         | HU32C821MRZ | 820         | 30 X 30               | 1.79   | 175                           | 8                |
|                         | HU32C821MRA | 820         | 35 X 25               | 1.79   | 175                           | 8                |
|                         | HU32C102MRY | 1,000       | 25 X 45               | 2.15   | 145                           | 8                |
|                         | HU32C102MRZ | 1,000       | 30 X 35               | 2.09   | 145                           | 8                |
|                         | HU32C102MRA | 1,000       | 35 X 25               | 1.98   | 145                           | 8                |
|                         | HU32C122MRY | 1,200       | 25 X 50               | 2.46   | 120                           | 9                |
|                         | HU32C122MRZ | 1,200       | 30 X 35               | 2.29   | 120                           | 9                |
|                         | HU32C122MRA | 1,200       | 35 X 30               | 2.29   | 120                           | 9                |
|                         | HU32C152MRZ | 1,500       | 30 X 45               | 2.80   | 95                            | 10               |
| HU32C152MRA             | 1,500       | 35 X 35     | 2.72                  | 95   | 10                            |                  |
| HU32C182MRA             | 1,800       | 35 X 40     | 3.09                  | 80   | 11                            |                  |
| HU32C182MSB             | 1,800       | 40 X 36     | 3.13                  | 80   | 11                            |                  |

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# ALUMINUM ELECTROLYTIC CAPACITORS

## HU3 Series

•Life rating to 2,000 hours at 105°C

•Temperature range -40°C to +105°C

| Rated Voltage (WVDC)    | Part Number | Capacitance | Case Size ØD x L (mm) | Maximum Ripple Current (A rms) @105° C, 120Hz | Typical ESR (mΩ) @20° C, 120Hz | Typical ESL (nH) |
|-------------------------|-------------|-------------|-----------------------|---|--------------------------------|------------------|
| 180 Volts<br>(Code: 2P) | HU32P271MRX | 270         | 22 X 25               | 0.86  | 460                            | 6                |
|                         | HU32P331MRX | 330         | 22 X 30               | 1.01  | 375                            | 7                |
|                         | HU32P331MRY | 330         | 25 X 25               | 1.00  | 375                            | 7                |
|                         | HU32P391MRX | 390         | 22 X 30               | 1.10  | 320                            | 7                |
|                         | HU32P391MRY | 390         | 25 X 25               | 1.09  | 320                            | 7                |
|                         | HU32P471MRX | 470         | 22 X 35               | 1.28  | 265                            | 9                |
|                         | HU32P471MRY | 470         | 25 X 30               | 1.28  | 265                            | 9                |
|                         | HU32P471MRZ | 470         | 30 X 25               | 1.28  | 265                            | 9                |
|                         | HU32P561MRX | 560         | 22 X 40               | 1.47  | 225                            | 9                |
|                         | HU32P561MRY | 560         | 25 X 30               | 1.40  | 225                            | 9                |
|                         | HU32P561MRZ | 560         | 30 X 25               | 1.40  | 225                            | 9                |
|                         | HU32P681MRX | 680         | 22 X 45               | 1.70  | 185                            | 11               |
|                         | HU32P681MRY | 680         | 25 X 35               | 1.63  | 185                            | 11               |
|                         | HU32P681MRZ | 680         | 30 X 30               | 1.63  | 185                            | 11               |
|                         | HU32P681MRA | 680         | 35 X 25               | 1.63  | 185                            | 11               |
|                         | HU32P821MRX | 820         | 22 X 50               | 1.94  | 155                            | 11               |
|                         | HU32P821MRY | 820         | 25 X 40               | 1.87  | 155                            | 11               |
|                         | HU32P821MRZ | 820         | 30 X 30               | 1.79  | 155                            | 11               |
|                         | HU32P821MRA | 820         | 35 X 25               | 1.79  | 155                            | 11               |
|                         | HU32P102MRY | 1,000       | 25 X 45               | 2.15  | 125                            | 13               |
|                         | HU32P102MRZ | 1,000       | 30 X 35               | 2.09  | 125                            | 13               |
|                         | HU32P102MRA | 1,000       | 35 X 30               | 2.09  | 125                            | 13               |
|                         | HU32P122MRZ | 1,200       | 30 X 40               | 2.39  | 105                            | 14               |
|                         | HU32P122MRA | 1,200       | 35 X 30               | 2.29  | 105                            | 14               |
|                         | HU32P152MRZ | 1,500       | 30 X 50               | 2.91  | 85                             | 14               |
|                         | HU32P152MRA | 1,500       | 35 X 35               | 2.72  | 85                             | 14               |
|                         | HU32P182MRA | 1,800       | 35 X 40               | 3.09  | 70                             | 15               |
|                         | HU32P182MSB | 1,800       | 40 X 36               | 3.13  | 70                             | 15               |
| 200 Volts<br>(Code: 2D) | HU32D221MRX | 220         | 22 X 25               | 0.92  | 485                            | 5                |
|                         | HU32D271MRX | 270         | 22 X 25               | 1.03  | 395                            | 6                |
|                         | HU32D331MRX | 330         | 22 X 30               | 1.21  | 325                            | 7                |
|                         | HU32D331MRY | 330         | 25 X 25               | 1.20  | 325                            | 7                |
|                         | HU32D391MRX | 390         | 22 X 35               | 1.39  | 275                            | 7                |
|                         | HU32D391MRY | 390         | 25 X 25               | 1.31  | 275                            | 7                |
|                         | HU32D471MRX | 470         | 22 X 40               | 1.62  | 230                            | 9                |
|                         | HU32D471MRY | 470         | 25 X 30               | 1.52  | 230                            | 9                |
|                         | HU32D471MRZ | 470         | 30 X 25               | 1.54  | 230                            | 9                |
|                         | HU32D561MRX | 560         | 22 X 45               | 1.85  | 190                            | 9                |
|                         | HU32D561MRY | 560         | 25 X 35               | 1.75  | 190                            | 9                |
|                         | HU32D561MRZ | 560         | 30 X 30               | 1.78  | 190                            | 9                |
|                         | HU32D681MRX | 680         | 22 X 45               | 2.04  | 160                            | 11               |
|                         | HU32D681MRY | 680         | 25 X 40               | 2.04  | 160                            | 11               |
|                         | HU32D681MRZ | 680         | 30 X 30               | 1.96  | 160                            | 11               |
|                         | HU32D681MRA | 680         | 35 X 25               | 1.96  | 160                            | 11               |
|                         | HU32D821MRY | 820         | 25 X 45               | 2.34  | 130                            | 11               |
|                         | HU32D821MRZ | 820         | 30 X 35               | 2.27  | 130                            | 11               |
|                         | HU32D821MRA | 820         | 35 X 30               | 2.27  | 130                            | 11               |
|                         | HU32D102MRY | 1,000       | 25 X 50               | 2.70  | 110                            | 13               |
|                         | HU32D102MRZ | 1,000       | 30 X 40               | 2.63  | 110                            | 13               |
|                         | HU32D102MRA | 1,000       | 35 X 30               | 2.51  | 110                            | 13               |
|                         | HU32D122MRZ | 1,200       | 30 X 45               | 3.00  | 90                             | 14               |
|                         | HU32D122MRA | 1,200       | 35 X 35               | 2.92  | 90                             | 14               |
|                         | HU32D152MRA | 1,500       | 35 X 45               | 3.38  | 75                             | 14               |
|                         | HU32D152MSB | 1,500       | 40 X 36               | 3.43  | 75                             | 14               |
|                         | HU32D182MRA | 1,800       | 35 X 50               | 4.01  | 60                             | 15               |
|                         | HU32D182MSB | 1,800       | 40 X 41               | 3.89  | 60                             | 15               |

# ALUMINUM ELECTROLYTIC CAPACITORS

## HU3 Series

•Life rating to 2,000 hours at 105°C

•Temperature range -40°C to +105°C

| Rated Voltage (WVDC)    | Part Number | Capacitance | Case Size ØD x L (mm) | Maximum Ripple Current (A rms) @105°C, 120Hz | Typical ESR (mΩ) @20°C, 120Hz | Typical ESL (nH) |
|-------------------------|-------------|-------------|-----------------------|--|-------------------------------|------------------|
| 250 Volts<br>(Code: 2E) | HU32E221MRX | 220         | 22 X 30               | 1.00   | 445                           | 5                |
|                         | HU32E221MRY | 220         | 25 X 25               | 0.98   | 445                           | 5                |
|                         | HU32E271MRX | 270         | 22 X 35               | 1.16   | 360                           | 6                |
|                         | HU32E271MRY | 270         | 25 X 25               | 1.08   | 360                           | 6                |
|                         | HU32E331MRX | 330         | 22 X 35               | 1.28   | 295                           | 7                |
|                         | HU32E331MRY | 330         | 25 X 30               | 1.27   | 295                           | 7                |
|                         | HU32E331MRZ | 330         | 30 X 25               | 1.28   | 295                           | 7                |
|                         | HU32E391MRX | 390         | 22 X 40               | 1.48   | 250                           | 8                |
|                         | HU32E391MRY | 390         | 25 X 35               | 1.46   | 250                           | 8                |
|                         | HU32E391MRZ | 390         | 30 X 25               | 1.39   | 250                           | 8                |
|                         | HU32E471MRX | 470         | 22 X 50               | 1.76   | 210                           | 8                |
|                         | HU32E471MRY | 470         | 25 X 40               | 1.69   | 210                           | 8                |
|                         | HU32E471MRZ | 470         | 30 X 30               | 1.63   | 210                           | 8                |
|                         | HU32E471MRA | 470         | 35 X 25               | 1.62   | 210                           | 8                |
|                         | HU32E561MRY | 560         | 25 X 45               | 1.93   | 175                           | 9                |
|                         | HU32E561MRZ | 560         | 30 X 35               | 1.87   | 175                           | 9                |
|                         | HU32E561MRA | 560         | 35 X 25               | 1.78   | 175                           | 9                |
|                         | HU32E681MRY | 680         | 25 X 50               | 2.22   | 145                           | 9                |
|                         | HU32E681MRZ | 680         | 30 X 35               | 2.06   | 145                           | 9                |
|                         | HU32E681MRA | 680         | 35 X 30               | 2.06   | 145                           | 9                |
|                         | HU32E821MRZ | 820         | 30 X 45               | 2.48   | 120                           | 10               |
|                         | HU32E821MRA | 820         | 35 X 35               | 2.41   | 120                           | 10               |
|                         | HU32E102MRA | 1,000       | 35 X 40               | 2.76   | 100                           | 11               |
|                         | HU32E102MSB | 1,000       | 40 X 36               | 2.80   | 100                           | 11               |
|                         | HU32E122MRA | 1,200       | 35 X 45               | 3.14   | 85                            | 11               |
|                         | HU32E122MSB | 1,200       | 40 X 41               | 3.17   | 85                            | 11               |
| HU32E152MRA             | 1,500       | 35 X 50     | 3.66                  | 65   | 12                            |                  |
| HU32E182MSB             | 1,800       | 40 X 51     | 4.20                  | 55   | 13                            |                  |
| 350 Volts<br>(Code: 2V) | HU32V820MRX | 82          | 22 X 25               | 0.47   | 1510                          | 3                |
|                         | HU32V101MRX | 100         | 22 X 30               | 0.56   | 1240                          | 3                |
|                         | HU32V101MRY | 100         | 25 X 25               | 0.55   | 1240                          | 3                |
|                         | HU32V121MRX | 120         | 22 X 30               | 0.61   | 1035                          | 3                |
|                         | HU32V121MRY | 120         | 25 X 25               | 0.60   | 1035                          | 3                |
|                         | HU32V151MRX | 150         | 22 X 35               | 0.72   | 830                           | 4                |
|                         | HU32V151MRY | 150         | 25 X 30               | 0.72   | 830                           | 4                |
|                         | HU32V151MRZ | 150         | 30 X 25               | 0.72   | 830                           | 4                |
|                         | HU32V181MRX | 180         | 22 X 40               | 0.83   | 690                           | 4                |
|                         | HU32V181MRY | 180         | 25 X 35               | 0.83   | 690                           | 4                |
|                         | HU32V181MRZ | 180         | 30 X 30               | 0.84   | 690                           | 4                |
|                         | HU32V221MRX | 220         | 22 X 50               | 1.01   | 565                           | 5                |
|                         | HU32V221MRY | 220         | 25 X 40               | 0.96   | 565                           | 5                |
|                         | HU32V221MRZ | 220         | 30 X 30               | 0.93   | 565                           | 5                |
|                         | HU32V221MRA | 220         | 35 X 25               | 0.93   | 565                           | 5                |
|                         | HU32V271MRY | 270         | 25 X 45               | 1.12   | 460                           | 5                |
|                         | HU32V271MRZ | 270         | 30 X 35               | 1.09   | 460                           | 5                |
|                         | HU32V271MRA | 270         | 35 X 30               | 1.09   | 460                           | 5                |
|                         | HU32V331MRY | 330         | 25 X 50               | 1.29   | 375                           | 6                |
|                         | HU32V331MRZ | 330         | 30 X 40               | 1.26   | 375                           | 6                |
|                         | HU32V331MRA | 330         | 35 X 30               | 1.20   | 375                           | 6                |
|                         | HU32V391MRZ | 390         | 30 X 45               | 1.43   | 320                           | 6                |
|                         | HU32V391MRA | 390         | 35 X 35               | 1.38   | 320                           | 6                |
|                         | HU32V471MRA | 470         | 35 X 40               | 1.58   | 265                           | 7                |
|                         | HU32V471MSB | 470         | 40 X 36               | 1.60   | 265                           | 7                |
|                         | HU32V561MRA | 560         | 35 X 45               | 1.79   | 225                           | 7                |
| HU32V561MSB             | 560         | 40 X 41     | 1.80                  | 225  | 7                             |                  |

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# ALUMINUM ELECTROLYTIC CAPACITORS

## HU3 Series

•Life rating to 2,000 hours at 105°C

•Temperature range -40°C to +105°C

| Rated Voltage (WVDC)      | Part Number   | Capacitance | Case Size<br>ØD x L (mm) | Maximum Ripple Current (A rms)<br>@105°C, 120Hz | Typical ESR (mΩ)<br>@20°C, 120Hz | Typical ESL (nH) |
|---------------------------|---------------|-------------|--------------------------|---|----------------------------------|------------------|
| 400 Volts<br>(Code: 2G)   | HU32G680MRX   | 68          | 22 X 25                  | 0.52  | 1300                             | 3                |
|                           | HU32G820MRX   | 82          | 22 X 30                  | 0.60  | 1080                             | 3                |
|                           | HU32G820MRY   | 82          | 25 X 25                  | 0.60  | 1080                             | 3                |
|                           | HU32G101MRX   | 100         | 22 X 30                  | 0.67  | 890                              | 3                |
|                           | HU32G101MRY   | 100         | 25 X 25                  | 0.66  | 890                              | 3                |
|                           | HU32G121MRX   | 120         | 22 X 35                  | 0.78  | 740                              | 3                |
|                           | HU32G121MRY   | 120         | 25 X 30                  | 0.77  | 740                              | 3                |
|                           | HU32G121MRZ   | 120         | 30 X 25                  | 0.78  | 740                              | 3                |
|                           | HU32G151MRX   | 150         | 22 X 40                  | 0.91  | 590                              | 4                |
|                           | HU32G151MRY   | 150         | 25 X 35                  | 0.91  | 590                              | 4                |
|                           | HU32G151MRZ   | 150         | 30 X 30                  | 0.92  | 590                              | 4                |
|                           | HU32G181MRX   | 180         | 22 X 45                  | 1.04  | 490                              | 4                |
|                           | HU32G181MRY   | 180         | 25 X 40                  | 1.04  | 490                              | 4                |
|                           | HU32G181MRZ   | 180         | 30 X 30                  | 1.01  | 490                              | 4                |
|                           | HU32G181MRA   | 180         | 35 X 25                  | 1.01  | 490                              | 4                |
|                           | HU32G221MRY   | 220         | 25 X 45                  | 1.21  | 400                              | 5                |
|                           | HU32G221MRZ   | 220         | 30 X 35                  | 1.18  | 400                              | 5                |
|                           | HU32G221MRA   | 220         | 35 X 30                  | 1.18  | 400                              | 5                |
|                           | HU32G271MRY   | 270         | 25 X 50                  | 1.40  | 330                              | 5                |
|                           | HU32G271MRZ   | 270         | 30 X 40                  | 1.37  | 330                              | 5                |
|                           | HU32G271MRA   | 270         | 35 X 30                  | 1.31  | 330                              | 5                |
|                           | HU32G331MRZ   | 330         | 30 X 45                  | 1.57  | 270                              | 6                |
|                           | HU32G331MRA   | 330         | 35 X 36                  | 1.52  | 270                              | 6                |
|                           | HU32G391MRA   | 390         | 35 X 40                  | 1.73  | 230                              | 6                |
| HU32G391MSB               | 390           | 40 X 36     | 1.74                     | 230   | 6                                |                  |
| HU32G471MRA               | 470           | 35 X 45     | 1.97                     | 190   | 7                                |                  |
| HU32G471MSB               | 470           | 40 X 41     | 1.95                     | 190   | 7                                |                  |
| HU32G561MRA               | 561           | 35 X 50     | 2.23                     | 160   | 8                                |                  |
| 420 Volts<br>(Code: 420V) | HU3420V470MRX | 47          | 22 X 25                  | 0.38  | 1880                             | 3                |
|                           | HU3420V680MRX | 68          | 22 X 30                  | 0.50  | 1300                             | 3                |
|                           | HU3420V820MRX | 82          | 22 X 30                  | 0.54  | 1080                             | 3                |
|                           | HU3420V820MRY | 82          | 25 X 25                  | 0.54  | 1080                             | 3                |
|                           | HU3420V101MRX | 100         | 22 X 35                  | 0.63  | 890                              | 3                |
|                           | HU3420V101MRY | 100         | 25 X 30                  | 0.63  | 890                              | 3                |
|                           | HU3420V121MRX | 120         | 22 X 40                  | 0.73  | 740                              | 4                |
|                           | HU3420V121MRY | 120         | 25 X 30                  | 0.70  | 740                              | 4                |
|                           | HU3420V121MRZ | 120         | 30 X 25                  | 0.70  | 740                              | 4                |
|                           | HU3420V151MRX | 150         | 22 X 45                  | 0.86  | 590                              | 5                |
|                           | HU3420V151MRY | 150         | 25 X 35                  | 0.82  | 590                              | 5                |
|                           | HU3420V151MRZ | 150         | 30 X 30                  | 0.83  | 590                              | 5                |
|                           | HU3420V181MRY | 180         | 25 X 40                  | 0.94  | 490                              | 5                |
|                           | HU3420V181MRZ | 180         | 30 X 30                  | 0.91  | 490                              | 5                |
|                           | HU3420V181MRA | 180         | 35 X 25                  | 0.90  | 490                              | 5                |
|                           | HU3420V221MRY | 220         | 25 X 50                  | 1.13  | 400                              | 5                |
|                           | HU3420V221MRZ | 220         | 30 X 35                  | 1.05  | 400                              | 5                |
|                           | HU3420V221MRA | 220         | 35 X 30                  | 1.05  | 400                              | 5                |
|                           | HU3420V271MRZ | 270         | 30 X 40                  | 1.22  | 330                              | 7                |
|                           | HU3420V271MRA | 270         | 35 X 35                  | 1.23  | 330                              | 7                |
|                           | HU3420V331MRZ | 330         | 30 X 50                  | 1.49  | 270                              | 10               |
|                           | HU3420V331MRA | 330         | 35 X 40                  | 1.41  | 270                              | 10               |
|                           | HU3420V391MRA | 390         | 35 X 45                  | 1.61  | 230                              | 10               |
|                           | HU3420V471MRA | 470         | 35 X 50                  | 1.85  | 140                              | 10               |

# ALUMINUM ELECTROLYTIC CAPACITORS

**HU3 Series** • Life rating to 2,000 hours at 105°C • Temperature range -40°C to +105°C

| Rated Voltage (WVDC)            | Part Number | Capacitance | Case Size ØD x L (mm) | Maximum Ripple Current (A rms) @105° C, 120Hz | Typical ESR (mΩ) @20° C, 120Hz | Typical ESL (nH) |
|---------------------------------|-------------|-------------|-----------------------|---|--------------------------------|------------------|
| <b>450 Volts<br/>(Code: 2W)</b> | HU32W470MRX | 47          | 22 X 25               | 0.42  | 1880                           | 3                |
|                                 | HU32W680MRX | 68          | 22 X 30               | 0.55  | 1300                           | 3                |
|                                 | HU32W680MRY | 68          | 25 X 25               | 0.54  | 1300                           | 3                |
|                                 | HU32W820MRX | 82          | 22 X 35               | 0.64  | 1080                           | 3                |
|                                 | HU32W820MRY | 82          | 25 X 30               | 0.64  | 1080                           | 3                |
|                                 | HU32W101MRX | 100         | 22 X 40               | 0.74  | 890                            | 3                |
|                                 | HU32W101MRY | 100         | 25 X 35               | 0.74  | 890                            | 3                |
|                                 | HU32W101MRZ | 100         | 30 X 25               | 0.71  | 890                            | 3                |
|                                 | HU32W121MRX | 120         | 22 X 45               | 0.85  | 740                            | 4                |
|                                 | HU32W121MRY | 120         | 25 X 35               | 0.80  | 740                            | 4                |
|                                 | HU32W121MRZ | 120         | 30 X 30               | 0.82  | 740                            | 4                |
|                                 | HU32W121MRA | 120         | 35 X 25               | 0.82  | 740                            | 4                |
|                                 | HU32W151MRY | 150         | 25 X 45               | 1.00  | 590                            | 5                |
|                                 | HU32W151MRZ | 150         | 30 X 35               | 0.96  | 590                            | 5                |
|                                 | HU32W151MRA | 150         | 35 X 30               | 0.96  | 590                            | 5                |
|                                 | HU32W181MRY | 180         | 25 X 50               | 1.14  | 490                            | 5                |
|                                 | HU32W181MRZ | 180         | 30 X 35               | 1.06  | 490                            | 5                |
|                                 | HU32W181MRA | 180         | 35 X 30               | 1.06  | 490                            | 5                |
|                                 | HU32W221MRZ | 220         | 30 X 40               | 1.22  | 400                            | 5                |
|                                 | HU32W221MRA | 220         | 35 X 35               | 1.24  | 400                            | 5                |
| HU32W271MRZ                     | 270         | 30 X 50     | 1.48                  | 330   | 10                             |                  |
| HU32W271MRA                     | 270         | 35 X 40     | 1.43                  | 330   | 10                             |                  |
| HU32W331MRA                     | 330         | 35 X 45     | 1.64                  | 270   | 10                             |                  |
| HU32W391MRA                     | 390         | 35 X 50     | 1.86                  | 230   | 12                             |                  |
| <b>500 Volts<br/>(Code: 2H)</b> | HU32H390MRX | 39          | 22 X 30               | 0.35  | 2440                           | 8                |
|                                 | HU32H470MRX | 47          | 22 X 35               | 0.41  | 2030                           | 8                |
|                                 | HU32H560MRX | 56          | 22 X 40               | 0.47  | 1700                           | 8                |
|                                 | HU32H680MRX | 68          | 22 X 45               | 0.54  | 1400                           | 10               |
|                                 | HU32H820MRX | 82          | 22 X 40               | 0.62  | 1165                           | 10               |
|                                 | HU32H101MRY | 100         | 25 X 45               | 0.67  | 960                            | 12               |
|                                 | HU32H121MRY | 120         | 25 X 50               | 0.77  | 800                            | 13               |
|                                 | HU32H121MRA | 120         | 35 X 30               | 0.72  | 800                            | 13               |
|                                 | HU32H521MRZ | 150         | 30 X 40               | 0.85  | 640                            | 14               |
|                                 | HU32H181MRZ | 180         | 30 X 50               | 1.01  | 535                            | 15               |
|                                 | HU32H221MRA | 220         | 35 X 45               | 1.12  | 434                            | 15               |
|                                 | HU32H271MRA | 270         | 35 X 50               | 1.29  | 360                            | 21               |

For nonstandard products contact Hitachi AIC.

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# SNAP MOUNT TYPE ALUMINUM ELECTROLYTIC CAPACITORS

## HU3 Series

Useful of 4,000 hours at 105°C (Warranty of 2,000 hours at 105°C)

### Features

- The size is reduced by 20 to 30% of conventional HUR and HVR through development of etched foil technology.



### Product Specifications

| Items                      | Specifications  |
|----------------------------|---|
| Temperature range          | -40°C ~ +105°C  |
| Capacitance tolerance      | ±20% (20°C, 120Hz)  |
| Rated voltage              | 16 ~ 500V.DC  |
| Leakage current            | 0.02CV (µA) or 3mA, whichever is smaller or less<br>[C = nominal capacitance (µF), V = rated voltage (V)]   |
| Dissipation factor         | Less than the value specified in the standard products table. (20°C, 120Hz)   |
| Permissible ripple current | As specified in the standard products table. (105°C, 120Hz)   |
| High temp. Load life test  | After 105°C, 2000h, rated voltage with specified ripple current application<br>Capacitance variation : Initial value ±15%<br>Dissipation factor : 175% of less of specified initial value<br>Leakage current : Not greater than the specified initial value |
| Others                     | JIS C 5101-4.   |

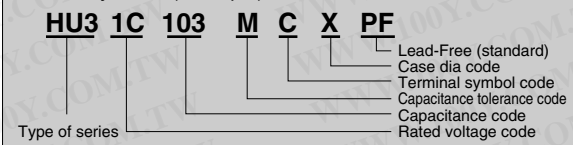
### Ripple current correction coefficient

| Temperature (°C)       | 40       | 60  | 70  | 85  | 105 |
|------------------------|----------|-----|-----|-----|-----|
| Correction coefficient | 2.5      | 2.2 | 2.0 | 1.8 | 1.0 |
| Frequency (Hz)         | 50/60    | 120 | 300 | 1K  | 10K |
| Correction coefficient | 16-100V  | 1.0 | 1.1 | 1.2 | 1.2 |
|                        | 160-450V | 0.7 | 1.0 | 1.1 | 1.4 |

A continuous load should be avoided over 10 A at the terminal in accordance with the permissible current.

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Product symbol : (Example) HU3 Series 16V 10,000µF ±20%



| Case dia code | Code |
|---------------|------|
| 22            | X    |
| 25            | Y    |
| 30            | Z    |
| 35            | A    |
| 40            | B    |

Refer to page (67) for other terminal shape available on request

### Standard value and case size

| Rated Voltage V. DC | Capacitance (µF) | Case size øDXL(mm) | tand 20°C, 120Hz | Ripple current (Arms) 105°C, 120Hz | Product name  |
|---------------------|------------------|--------------------|------------------|------------------------------------|---------------|
| 16V(1C)             | 4700             | 22·25              | 0.50             | 0.93                               | HU31C472MCXPF |
|                     |                  | 22·35              | 0.50             | 1.27                               | HU31C682MCXPF |
|                     |                  | 25·30              | 0.50             | 1.26                               | HU31C682MCYPF |
|                     | 10000            | 22·45              | 0.50             | 1.43                               | HU31C103MCXPF |
|                     |                  | 25·35              | 0.50             | 1.36                               | HU31C103MCYPF |
|                     |                  | 30·25              | 0.50             | 1.30                               | HU31C103MCZPF |
|                     | 15000            | 25·45              | 0.50             | 1.84                               | HU31C153MCYPF |
|                     |                  | 30·35              | 0.50             | 1.77                               | HU31C153MCZPF |
|                     |                  | 35·30              | 0.50             | 1.78                               | HU31C153MCAPF |
|                     | 22000            | 30·45              | 0.50             | 2.36                               | HU31C223MCZPF |
| 35·35               |                  | 0.50               | 2.27             | HU31C223MCAPF                      |               |
| 33000               | 35·50            | 0.50               | 2.95             | HU31C333MCAPF                      |               |

| Rated Voltage V. DC | Capacitance (µF) | Case size øDXL(mm) | tand 20°C, 120Hz | Ripple current (Arms) 105°C, 120Hz | Product name  |
|---------------------|------------------|--------------------|------------------|------------------------------------|---------------|
| 25V(1E)             | 3300             | 22·25              | 0.40             | 0.87                               | HU31E332MCXPF |
|                     |                  | 22·30              | 0.40             | 1.00                               | HU31E472MCXPF |
|                     |                  | 25·25              | 0.40             | 0.98                               | HU31E472MCYPF |
|                     | 4700             | 22·35              | 0.40             | 1.27                               | HU31E682MCXPF |
|                     |                  | 25·30              | 0.40             | 1.27                               | HU31E682MCYPF |
|                     |                  | 30·25              | 0.40             | 1.27                               | HU31E682MCZPF |
|                     | 6800             | 22·45              | 0.40             | 1.43                               | HU31E103MCXPF |
|                     |                  | 25·35              | 0.40             | 1.38                               | HU31E103MCYPF |
|                     |                  | 30·30              | 0.40             | 1.38                               | HU31E103MCZPF |
|                     | 10000            | 35·25              | 0.40             | 1.38                               | HU31E103MCAPF |
|                     |                  | 25·45              | 0.40             | 1.84                               | HU31E153MCYPF |
|                     |                  | 30·35              | 0.40             | 1.78                               | HU31E153MCZPF |
|                     | 15000            | 35·30              | 0.40             | 1.78                               | HU31E153MCAPF |
|                     |                  | 30·45              | 0.40             | 2.36                               | HU31E223MCZPF |
|                     |                  | 35·40              | 0.40             | 2.38                               | HU31E223MCAPF |
|                     | 33000            | 35·50              | 0.40             | 2.95                               | HU31E333MCAPF |



# SNAP MOUNT TYPE ALUMINUM ELECTROLYTIC CAPACITORS

ALUMINUM ELECTROLYTIC CAPACITORS

| Rated Voltage<br>V. DC | Capacitance<br>(μF) | Case size<br>øDXL(mm) | tanδ<br>20°C,120Hz | Ripple current<br>(Arms)<br>105°C,120Hz | Product name  |
|------------------------|---------------------|-----------------------|--------------------|---|---------------|
| 35V(1V)                | 2200                | 22·25                 | 0.35               | 0.71                                    | HU31V222MCXPF |
|                        |                     | 22·30                 | 0.35               | 0.93                                    | HU31V332MCXPF |
|                        | 3300                | 25·25                 | 0.35               | 0.92                                    | HU31V332MCYPF |
|                        |                     | 22·35                 | 0.35               | 1.05                                    | HU31V472MCXPF |
|                        |                     | 25·30                 | 0.35               | 1.05                                    | HU31V472MCYPF |
|                        | 4700                | 30·25                 | 0.35               | 1.05                                    | HU31V472MCZPF |
|                        |                     | 22·50                 | 0.35               | 1.46                                    | HU31V682MCXPF |
|                        |                     | 25·40                 | 0.35               | 1.40                                    | HU31V682MCYPF |
|                        |                     | 30·30                 | 0.35               | 1.34                                    | HU31V682MCZPF |
|                        | 6800                | 35·25                 | 0.35               | 1.34                                    | HU31V682MCAPF |
|                        |                     | 25·50                 | 0.35               | 1.57                                    | HU31V103MCYPF |
|                        |                     | 30·35                 | 0.35               | 1.46                                    | HU31V103MCZPF |
|                        | 10000               | 35·30                 | 0.35               | 1.46                                    | HU31V103MCAPF |
|                        |                     | 30·50                 | 0.35               | 2.03                                    | HU31V153MCZPF |
| 15000                  | 35·40               | 0.35                  | 1.96               | HU31V153MCAPF                           |               |

| Rated Voltage<br>V. DC | Capacitance<br>(μF) | Case size<br>øDXL(mm) | tanδ<br>20°C,120Hz | Ripple current<br>(Arms)<br>105°C,120Hz | Product name  |
|------------------------|---------------------|-----------------------|--------------------|---|---------------|
| 50V(1H)                | 1500                | 22·25                 | 0.30               | 0.68                                    | HU31H152MCXPF |
|                        |                     | 22·30                 | 0.30               | 0.76                                    | HU31H222MCXPF |
|                        |                     | 25·25                 | 0.30               | 0.75                                    | HU31H222MCYPF |
|                        | 2200                | 22·35                 | 0.30               | 0.99                                    | HU31H332MCXPF |
|                        |                     | 25·30                 | 0.30               | 0.98                                    | HU31H332MCYPF |
|                        |                     | 30·25                 | 0.30               | 0.99                                    | HU31H332MCZPF |
|                        |                     | 22·45                 | 0.30               | 1.16                                    | HU31H472MCXPF |
|                        | 3300                | 25·35                 | 0.30               | 1.11                                    | HU31H472MCYPF |
|                        |                     | 30·30                 | 0.30               | 1.12                                    | HU31H472MCZPF |
|                        |                     | 35·25                 | 0.30               | 1.12                                    | HU31H472MCAPF |
|                        |                     | 25·50                 | 0.30               | 1.53                                    | HU31H682MCYPF |
|                        | 4700                | 30·35                 | 0.30               | 1.42                                    | HU31H682MCZPF |
|                        |                     | 35·30                 | 0.30               | 1.42                                    | HU31H682MCAPF |
|                        |                     | 30·45                 | 0.35               | 1.59                                    | HU31H103MCZPF |
|                        | 6800                | 35·40                 | 0.35               | 1.60                                    | HU31H103MCAPF |
|                        |                     | 30·50                 | 0.35               | 2.13                                    | HU31H153MCAPF |
|                        | 15000               | 35·50                 | 0.35               | 2.13                                    | HU31H153MCAPF |

| Rated Voltage<br>V. DC | Capacitance<br>(μF) | Case size<br>øDXL(mm) | tanδ<br>20°C,120Hz | Ripple current<br>(Arms)<br>105°C,120Hz | Product name  |
|------------------------|---------------------|-----------------------|--------------------|---|---------------|
| 63V(1J)                | 1000                | 22·25                 | 0.25               | 0.56                                    | HU31J102MCXPF |
|                        |                     | 22·30                 | 0.25               | 0.73                                    | HU31J152MCXPF |
|                        |                     | 25·25                 | 0.25               | 0.72                                    | HU31J152MCYPF |
|                        | 1500                | 22·35                 | 0.25               | 0.81                                    | HU31J222MCXPF |
|                        |                     | 25·30                 | 0.25               | 0.80                                    | HU31J222MCYPF |
|                        |                     | 30·25                 | 0.25               | 0.81                                    | HU31J222MCZPF |
|                        |                     | 22·45                 | 0.25               | 1.09                                    | HU31J332MCXPF |
|                        | 2200                | 25·40                 | 0.25               | 1.09                                    | HU31J332MCYPF |
|                        |                     | 30·30                 | 0.25               | 1.05                                    | HU31J332MCZPF |
|                        |                     | 35·25                 | 0.25               | 1.05                                    | HU31J332MCAPF |
|                        |                     | 25·50                 | 0.25               | 1.27                                    | HU31J472MCYPF |
|                        | 3300                | 30·35                 | 0.25               | 1.18                                    | HU31J472MCZPF |
|                        |                     | 35·30                 | 0.25               | 1.18                                    | HU31J472MCAPF |
|                        |                     | 30·45                 | 0.25               | 1.55                                    | HU31J682MCZPF |
|                        | 4700                | 35·40                 | 0.25               | 1.56                                    | HU31J682MCAPF |
|                        |                     | 35·50                 | 0.35               | 1.74                                    | HU31J103MCAPF |
|                        | 6800                | 35·50                 | 0.35               | 1.74                                    | HU31J103MCAPF |
|                        | 10000               | 35·50                 | 0.35               | 1.74                                    | HU31J103MCAPF |

| Rated Voltage<br>V. DC | Capacitance<br>(μF) | Case size<br>øDXL(mm) | tanδ<br>20°C,120Hz | Ripple current<br>(Arms)<br>105°C,120Hz | Product name  |
|------------------------|---------------------|-----------------------|--------------------|---|---------------|
| 80V(1K)                | 1000                | 22·30                 | 0.20               | 0.59                                    | HU31K102MCXPF |
|                        |                     | 25·25                 | 0.20               | 0.59                                    | HU31K102MCYPF |
|                        |                     | 22·35                 | 0.20               | 0.77                                    | HU31K152MCXPF |
|                        | 1500                | 25·30                 | 0.20               | 0.77                                    | HU31K152MCYPF |
|                        |                     | 30·25                 | 0.20               | 0.77                                    | HU31K152MCZPF |
|                        |                     | 22·50                 | 0.20               | 0.93                                    | HU31K222MCXPF |
|                        |                     | 25·40                 | 0.20               | 0.89                                    | HU31K222MCYPF |
|                        | 2200                | 30·30                 | 0.20               | 0.85                                    | HU31K222MCZPF |
|                        |                     | 35·25                 | 0.20               | 0.85                                    | HU31K222MCAPF |
|                        |                     | 25·50                 | 0.20               | 1.19                                    | HU31K332MCYPF |
|                        |                     | 30·40                 | 0.20               | 1.16                                    | HU31K332MCZPF |
|                        | 3300                | 35·30                 | 0.20               | 1.11                                    | HU31K332MCAPF |
|                        |                     | 30·50                 | 0.25               | 1.34                                    | HU31K472MCZPF |
|                        | 4700                | 35·40                 | 0.25               | 1.30                                    | HU31K472MCAPF |
|                        |                     | 35·50                 | 0.25               | 1.69                                    | HU31K682MCAPF |

| Rated Voltage<br>V. DC | Capacitance<br>(μF) | Case size<br>øDXL(mm) | tanδ<br>20°C,120Hz | Ripple current<br>(Arms)<br>105°C,120Hz | Product name  |
|------------------------|---------------------|-----------------------|--------------------|---|---------------|
| 100V(2A)               | 1000                | 22·30                 | 0.20               | 0.59                                    | HU32A102MCXPF |
|                        |                     | 25·25                 | 0.20               | 0.59                                    | HU32A102MCYPF |
|                        | 1500                | 22·40                 | 0.20               | 0.81                                    | HU32A152MCXPF |
|                        |                     | 25·35                 | 0.20               | 0.81                                    | HU32A152MCYPF |
|                        |                     | 30·25                 | 0.20               | 0.77                                    | HU32A152MCZPF |
|                        | 2200                | 25·45                 | 0.20               | 0.93                                    | HU32A222MCYPF |
|                        |                     | 30·35                 | 0.20               | 0.90                                    | HU32A222MCZPF |
|                        | 3300                | 30·45                 | 0.20               | 1.21                                    | HU32A332MCZPF |
|                        |                     | 35·35                 | 0.20               | 1.16                                    | HU32A332MCAPF |
|                        |                     | 35·45                 | 0.25               | 1.35                                    | HU32A472MCAPF |

| Rated Voltage<br>V. DC | Capacitance<br>(μF) | Case size<br>øDXL(mm) | tanδ<br>20°C,120Hz | Ripple current<br>(Arms)<br>105°C,120Hz | Product name  |
|------------------------|---------------------|-----------------------|--------------------|---|---------------|
| 160V(2C)               | 330                 | 22·25                 | 0.15               | 0.98                                    | HU32C331MCXPF |
|                        |                     | 22·30                 | 0.15               | 1.10                                    | HU32C391MCXPF |
|                        | 390                 | 25·25                 | 0.15               | 1.09                                    | HU32C391MCYPF |
|                        |                     | 22·30                 | 0.15               | 1.21                                    | HU32C471MCXPF |
|                        | 470                 | 25·25                 | 0.15               | 1.19                                    | HU32C471MCYPF |
|                        |                     | 22·35                 | 0.15               | 1.40                                    | HU32C561MCXPF |
|                        | 560                 | 25·30                 | 0.15               | 1.40                                    | HU32C561MCYPF |
|                        |                     | 30·25                 | 0.15               | 1.40                                    | HU32C561MCZPF |
|                        | 680                 | 22·40                 | 0.15               | 1.62                                    | HU32C681MCXPF |
|                        |                     | 25·35                 | 0.15               | 1.61                                    | HU32C681MCYPF |
|                        |                     | 30·25                 | 0.15               | 1.54                                    | HU32C681MCZPF |
|                        | 820                 | 22·45                 | 0.15               | 1.86                                    | HU32C821MCXPF |
|                        |                     | 25·40                 | 0.15               | 1.86                                    | HU32C821MCYPF |
|                        |                     | 30·30                 | 0.15               | 1.79                                    | HU32C821MCZPF |
|                        |                     | 35·25                 | 0.15               | 1.79                                    | HU32C821MCAPF |
|                        | 1000                | 25·45                 | 0.15               | 2.15                                    | HU32C102MCYPF |
|                        |                     | 30·35                 | 0.15               | 2.09                                    | HU32C102MCZPF |
|                        |                     | 35·25                 | 0.15               | 1.98                                    | HU32C102MCAPF |
|                        | 1200                | 25·50                 | 0.15               | 2.46                                    | HU32C122MCYPF |
|                        |                     | 30·35                 | 0.15               | 2.29                                    | HU32C122MCZPF |
|                        |                     | 35·30                 | 0.15               | 2.29                                    | HU32C122MCAPF |
|                        | 1500                | 30·45                 | 0.15               | 2.80                                    | HU32C152MCZPF |
|                        |                     | 35·35                 | 0.15               | 2.72                                    | HU32C152MCAPF |
|                        | 1800                | 35·40                 | 0.15               | 3.09                                    | HU32C182MCAPF |
|                        |                     | 40·36                 | 0.15               | 3.13                                    | HU32C182MSBPF |

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# SNAP-IN TYPE ALUMINUM ELECTROLYTIC CAPACITORS

| Rated Voltage<br>V. DC | Capacitance<br>( $\mu$ F) | Case size<br>$\phi$ DXL(mm) | $\tan\delta$<br>20°C,120Hz | Ripple current<br>(Arms)<br>105°C,120Hz | Product name  |
|------------------------|---------------------------|-----------------------------|----------------------------|---|---------------|
| 180V(2P)               | 270                       | 22·25                       | 0.15                       | 0.86                                    | HU32P271MCXPF |
|                        |                           | 22·30                       | 0.15                       | 1.01                                    | HU32P331MCXPF |
|                        | 330                       | 25·25                       | 0.15                       | 1.00                                    | HU32P331MCYPF |
|                        |                           | 22·30                       | 0.15                       | 1.10                                    | HU32P391MCXPF |
|                        | 390                       | 25·25                       | 0.15                       | 1.09                                    | HU32P391MCYPF |
|                        |                           | 22·35                       | 0.15                       | 1.28                                    | HU32P471MCXPF |
|                        | 470                       | 25·30                       | 0.15                       | 1.28                                    | HU32P471MCYPF |
|                        |                           | 30·25                       | 0.15                       | 1.28                                    | HU32P471MCZPF |
|                        | 560                       | 22·40                       | 0.15                       | 1.47                                    | HU32P561MCXPF |
|                        |                           | 25·30                       | 0.15                       | 1.40                                    | HU32P561MCYPF |
|                        | 680                       | 30·25                       | 0.15                       | 1.40                                    | HU32P561MCZPF |
|                        |                           | 22·45                       | 0.15                       | 1.70                                    | HU32P681MCXPF |
|                        |                           | 25·35                       | 0.15                       | 1.63                                    | HU32P681MCYPF |
|                        | 820                       | 30·30                       | 0.15                       | 1.63                                    | HU32P681MCZPF |
|                        |                           | 35·25                       | 0.15                       | 1.63                                    | HU32P681MCAPF |
|                        |                           | 22·50                       | 0.15                       | 1.94                                    | HU32P821MCXPF |
|                        |                           | 25·40                       | 0.15                       | 1.87                                    | HU32P821MCYPF |
|                        | 1000                      | 30·30                       | 0.15                       | 1.79                                    | HU32P821MCZPF |
|                        |                           | 35·25                       | 0.15                       | 1.79                                    | HU32P821MCAPF |
|                        |                           | 25·45                       | 0.15                       | 2.15                                    | HU32P102MCYPF |
|                        |                           | 30·35                       | 0.15                       | 2.09                                    | HU32P102MCZPF |
|                        | 1200                      | 35·30                       | 0.15                       | 2.09                                    | HU32P102MCAPF |
|                        |                           | 30·40                       | 0.15                       | 2.39                                    | HU32P122MCZPF |
|                        | 1500                      | 35·30                       | 0.15                       | 2.29                                    | HU32P122MCAPF |
|                        |                           | 30·50                       | 0.15                       | 2.91                                    | HU32P152MCZPF |
|                        | 1800                      | 35·35                       | 0.15                       | 2.72                                    | HU32P152MCAPF |
|                        |                           | 35·40                       | 0.15                       | 3.09                                    | HU32P182MCAPF |
|                        |                           |                             | 40·36                      | 0.15                                    | 3.13          |

| Rated Voltage<br>V. DC | Capacitance<br>( $\mu$ F) | Case size<br>$\phi$ DXL(mm) | $\tan\delta$<br>20°C,120Hz | Ripple current<br>(Arms)<br>105°C,120Hz | Product name  |
|------------------------|---------------------------|-----------------------------|----------------------------|---|---------------|
| 200V(2D)               | 220                       | 22·25                       | 0.15                       | 0.92                                    | HU32D221MCXPF |
|                        |                           | 22·30                       | 0.15                       | 1.03                                    | HU32D271MCXPF |
|                        | 330                       | 25·25                       | 0.15                       | 1.21                                    | HU32D331MCXPF |
|                        |                           | 22·30                       | 0.15                       | 1.20                                    | HU32D331MCYPF |
|                        | 390                       | 22·35                       | 0.15                       | 1.39                                    | HU32D391MCXPF |
|                        |                           | 25·25                       | 0.15                       | 1.31                                    | HU32D391MCYPF |
|                        | 470                       | 22·40                       | 0.15                       | 1.62                                    | HU32D471MCXPF |
|                        |                           | 25·30                       | 0.15                       | 1.52                                    | HU32D471MCYPF |
|                        |                           | 30·25                       | 0.15                       | 1.54                                    | HU32D471MCZPF |
|                        | 560                       | 22·45                       | 0.15                       | 1.85                                    | HU32D561MCXPF |
|                        |                           | 25·35                       | 0.15                       | 1.75                                    | HU32D561MCYPF |
|                        | 680                       | 30·30                       | 0.15                       | 1.78                                    | HU32D561MCZPF |
|                        |                           | 22·45                       | 0.15                       | 2.04                                    | HU32D681MCXPF |
|                        |                           | 25·40                       | 0.15                       | 2.04                                    | HU32D681MCYPF |
|                        | 820                       | 30·30                       | 0.15                       | 1.96                                    | HU32D681MCZPF |
|                        |                           | 35·25                       | 0.15                       | 1.96                                    | HU32D681MCAPF |
|                        |                           | 25·45                       | 0.15                       | 2.34                                    | HU32D821MCYPF |
|                        |                           | 30·35                       | 0.15                       | 2.27                                    | HU32D821MCZPF |
|                        | 1000                      | 35·30                       | 0.15                       | 2.27                                    | HU32D821MCAPF |
|                        |                           | 25·50                       | 0.15                       | 2.70                                    | HU32D102MCYPF |
|                        |                           | 30·40                       | 0.15                       | 2.63                                    | HU32D102MCZPF |
|                        |                           | 35·30                       | 0.15                       | 2.51                                    | HU32D102MCAPF |
|                        | 1200                      | 30·45                       | 0.15                       | 3.00                                    | HU32D122MCZPF |
|                        |                           | 35·35                       | 0.15                       | 2.92                                    | HU32D122MCAPF |
|                        | 1500                      | 35·45                       | 0.15                       | 3.38                                    | HU32D152MCAPF |
|                        |                           | 40·36                       | 0.15                       | 3.43                                    | HU32D152MSBPF |
|                        | 1800                      | 35·50                       | 0.15                       | 4.01                                    | HU32D182MCAPF |
|                        |                           | 40·41                       | 0.15                       | 3.89                                    | HU32D182MSBPF |

| Rated Voltage<br>V. DC | Capacitance<br>( $\mu$ F) | Case size<br>$\phi$ DXL(mm) | $\tan\delta$<br>20°C,120Hz | Ripple current<br>(Arms)<br>105°C,120Hz | Product name  |               |
|------------------------|---------------------------|-----------------------------|----------------------------|---|---------------|---------------|
| 250V(2E)               | 220                       | 22·30                       | 0.15                       | 1.00                                    | HU32E221MCXPF |               |
|                        |                           | 25·25                       | 0.15                       | 0.98                                    | HU32E221MCYPF |               |
|                        | 270                       | 22·35                       | 0.15                       | 1.16                                    | HU32E271MCXPF |               |
|                        |                           | 25·25                       | 0.15                       | 1.08                                    | HU32E271MCYPF |               |
|                        | 330                       | 22·35                       | 0.15                       | 1.28                                    | HU32E331MCXPF |               |
|                        |                           | 25·30                       | 0.15                       | 1.27                                    | HU32E331MCYPF |               |
|                        | 390                       | 30·25                       | 0.15                       | 1.28                                    | HU32E331MCZPF |               |
|                        |                           | 22·40                       | 0.15                       | 1.48                                    | HU32E391MCXPF |               |
|                        | 470                       | 25·35                       | 0.15                       | 1.46                                    | HU32E391MCYPF |               |
|                        |                           | 30·25                       | 0.15                       | 1.39                                    | HU32E391MCZPF |               |
|                        | 560                       | 22·50                       | 0.15                       | 1.76                                    | HU32E471MCXPF |               |
|                        |                           | 25·40                       | 0.15                       | 1.69                                    | HU32E471MCYPF |               |
|                        |                           | 30·30                       | 0.15                       | 1.63                                    | HU32E471MCZPF |               |
|                        | 680                       | 35·25                       | 0.15                       | 1.62                                    | HU32E471MCAPF |               |
|                        |                           | 25·45                       | 0.15                       | 1.93                                    | HU32E561MCYPF |               |
|                        | 820                       | 30·35                       | 0.15                       | 1.87                                    | HU32E561MCZPF |               |
|                        |                           | 35·25                       | 0.15                       | 1.78                                    | HU32E561MCAPF |               |
|                        | 1000                      | 25·50                       | 0.15                       | 2.22                                    | HU32E681MCYPF |               |
|                        |                           | 30·35                       | 0.15                       | 2.06                                    | HU32E681MCZPF |               |
|                        | 1200                      | 35·30                       | 0.15                       | 2.06                                    | HU32E681MCAPF |               |
|                        |                           | 30·45                       | 0.15                       | 2.48                                    | HU32E821MCZPF |               |
|                        | 1500                      | 35·35                       | 0.15                       | 2.41                                    | HU32E821MCAPF |               |
|                        |                           | 35·40                       | 0.15                       | 2.76                                    | HU32E102MCAPF |               |
|                        | 1800                      | 40·36                       | 0.15                       | 2.80                                    | HU32E102MSBPF |               |
|                        |                           | 35·45                       | 0.15                       | 3.14                                    | HU32E122MCAPF |               |
|                        |                           |                             | 40·41                      | 0.15                                    | 3.17          | HU32E122MSBPF |
|                        |                           |                             | 35·50                      | 0.15                                    | 3.66          | HU32E152MCAPF |
|                        |                           |                             | 40·51                      | 0.15                                    | 4.20          | HU32E182MSBPF |

| Rated Voltage<br>V. DC | Capacitance<br>( $\mu$ F) | Case size<br>$\phi$ DXL(mm) | $\tan\delta$<br>20°C,120Hz | Ripple current<br>(Arms)<br>105°C,120Hz | Product name  |               |
|------------------------|---------------------------|-----------------------------|----------------------------|---|---------------|---------------|
| 350V(2V)               | 82                        | 22·25                       | 0.15                       | 0.47                                    | HU32V820MCXPF |               |
|                        |                           | 22·30                       | 0.15                       | 0.56                                    | HU32V101MCXPF |               |
|                        | 100                       | 25·25                       | 0.15                       | 0.55                                    | HU32V101MCYPF |               |
|                        |                           | 22·30                       | 0.15                       | 0.61                                    | HU32V121MCXPF |               |
|                        | 120                       | 25·25                       | 0.15                       | 0.60                                    | HU32V121MCYPF |               |
|                        |                           | 22·35                       | 0.15                       | 0.72                                    | HU32V151MCXPF |               |
|                        | 150                       | 25·30                       | 0.15                       | 0.72                                    | HU32V151MCYPF |               |
|                        |                           | 30·25                       | 0.15                       | 0.72                                    | HU32V151MCZPF |               |
|                        | 180                       | 22·40                       | 0.15                       | 0.83                                    | HU32V181MCXPF |               |
|                        |                           | 25·35                       | 0.15                       | 0.83                                    | HU32V181MCYPF |               |
|                        | 220                       | 30·30                       | 0.15                       | 0.84                                    | HU32V181MCZPF |               |
|                        |                           | 22·50                       | 0.15                       | 1.01                                    | HU32V221MCXPF |               |
|                        |                           | 25·40                       | 0.15                       | 0.96                                    | HU32V221MCYPF |               |
|                        | 270                       | 30·30                       | 0.15                       | 0.93                                    | HU32V221MCZPF |               |
|                        |                           | 35·25                       | 0.15                       | 0.93                                    | HU32V221MCAPF |               |
|                        |                           | 25·45                       | 0.15                       | 1.12                                    | HU32V271MCYPF |               |
|                        | 330                       | 30·35                       | 0.15                       | 1.09                                    | HU32V271MCZPF |               |
|                        |                           | 35·30                       | 0.15                       | 1.09                                    | HU32V271MCAPF |               |
|                        | 390                       | 25·50                       | 0.15                       | 1.29                                    | HU32V331MCYPF |               |
|                        |                           | 30·40                       | 0.15                       | 1.26                                    | HU32V331MCZPF |               |
|                        | 470                       | 35·30                       | 0.15                       | 1.20                                    | HU32V331MCAPF |               |
|                        |                           | 30·45                       | 0.15                       | 1.43                                    | HU32V391MCZPF |               |
|                        | 560                       | 35·35                       | 0.15                       | 1.38                                    | HU32V391MCAPF |               |
|                        |                           | 35·40                       | 0.15                       | 1.58                                    | HU32V471MCAPF |               |
|                        |                           |                             | 40·36                      | 0.15                                    | 1.60          | HU32V471MSBPF |
|                        |                           |                             | 35·45                      | 0.15                                    | 1.79          | HU32V561MCAPF |
|                        |                           |                             | 40·41                      | 0.15                                    | 1.80          | HU32V561MSBPF |

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# SNAP MOUNT TYPE ALUMINUM ELECTROLYTIC CAPACITORS

ALUMINUM ELECTROLYTIC CAPACITORS

| Rated Voltage<br>V. DC | Capacitance<br>( $\mu$ F) | Case size<br>$\phi$ DXL(mm) | $\tan\delta$<br>20°C,120Hz | Ripple current<br>(Arms)<br>105°C,120Hz | Product name  |
|------------------------|---------------------------|-----------------------------|----------------------------|---|---------------|
| 400V(2G)               | 68                        | 22·25                       | 0.15                       | 0.52                                    | HU32G680MCXPF |
|                        |                           | 22·30                       | 0.15                       | 0.60                                    | HU32G820MCXPF |
|                        | 82                        | 25·25                       | 0.15                       | 0.60                                    | HU32G820MCYPF |
|                        |                           | 22·30                       | 0.15                       | 0.67                                    | HU32G101MCXPF |
|                        | 100                       | 25·25                       | 0.15                       | 0.66                                    | HU32G101MCYPF |
|                        |                           | 22·35                       | 0.15                       | 0.78                                    | HU32G121MCXPF |
|                        | 120                       | 25·30                       | 0.15                       | 0.77                                    | HU32G121MCYPF |
|                        |                           | 30·25                       | 0.15                       | 0.78                                    | HU32G121MCZPF |
|                        | 150                       | 22·40                       | 0.15                       | 0.91                                    | HU32G151MCXPF |
|                        |                           | 25·35                       | 0.15                       | 0.91                                    | HU32G151MCYPF |
|                        | 180                       | 30·30                       | 0.15                       | 0.92                                    | HU32G151MCZPF |
|                        |                           | 22·45                       | 0.15                       | 1.04                                    | HU32G181MCXPF |
|                        |                           | 25·40                       | 0.15                       | 1.04                                    | HU32G181MCYPF |
|                        | 220                       | 30·30                       | 0.15                       | 1.01                                    | HU32G181MCZPF |
|                        |                           | 35·25                       | 0.15                       | 1.01                                    | HU32G181MCAPF |
|                        |                           | 25·45                       | 0.15                       | 1.21                                    | HU32G221MCYPF |
|                        | 270                       | 30·35                       | 0.15                       | 1.18                                    | HU32G221MCZPF |
|                        |                           | 35·30                       | 0.15                       | 1.18                                    | HU32G221MCAPF |
|                        |                           | 25·50                       | 0.15                       | 1.40                                    | HU32G271MCYPF |
|                        | 330                       | 30·40                       | 0.15                       | 1.37                                    | HU32G271MCZPF |
|                        |                           | 35·30                       | 0.15                       | 1.31                                    | HU32G271MCAPF |
|                        | 390                       | 30·45                       | 0.15                       | 1.57                                    | HU32G331MCZPF |
|                        |                           | 35·35                       | 0.15                       | 1.52                                    | HU32G331MCAPF |
|                        | 470                       | 35·40                       | 0.15                       | 1.73                                    | HU32G391MCAPF |
| 40·36                  |                           | 0.15                        | 1.74                       | HU32G391MSBPF                           |               |
| 560                    | 35·45                     | 0.15                        | 1.97                       | HU32G471MCAPF                           |               |
|                        | 40·41                     | 0.15                        | 1.98                       | HU32G471MSBPF                           |               |
| 560                    | 35·50                     | 0.15                        | 2.23                       | HU32G561MCAPF                           |               |

| Rated Voltage<br>V. DC | Capacitance<br>( $\mu$ F) | Case size<br>$\phi$ DXL(mm) | $\tan\delta$<br>20°C,120Hz | Ripple current<br>(Arms)<br>105°C,120Hz | Product name    |
|------------------------|---------------------------|-----------------------------|----------------------------|---|-----------------|
| 420V(420V)             | 47                        | 22·25                       | 0.15                       | 0.38                                    | HU3420V470MCXPF |
|                        |                           | 68                          | 22·30                      | 0.15                                    | 0.50            |
|                        | 82                        | 22·30                       | 0.15                       | 0.54                                    | HU3420V820MCXPF |
|                        |                           | 25·25                       | 0.15                       | 0.54                                    | HU3420V820MCYPF |
|                        | 100                       | 22·35                       | 0.15                       | 0.63                                    | HU3420V101MCXPF |
|                        |                           | 25·30                       | 0.15                       | 0.63                                    | HU3420V101MCYPF |
|                        | 120                       | 22·40                       | 0.15                       | 0.73                                    | HU3420V121MCXPF |
|                        |                           | 25·30                       | 0.15                       | 0.70                                    | HU3420V121MCYPF |
|                        |                           | 30·25                       | 0.15                       | 0.70                                    | HU3420V121MCZPF |
|                        | 150                       | 22·45                       | 0.15                       | 0.86                                    | HU3420V151MCXPF |
|                        |                           | 25·35                       | 0.15                       | 0.82                                    | HU3420V151MCYPF |
|                        |                           | 30·30                       | 0.15                       | 0.83                                    | HU3420V151MCZPF |
|                        | 180                       | 25·40                       | 0.15                       | 0.94                                    | HU3420V181MCYPF |
|                        |                           | 30·30                       | 0.15                       | 0.91                                    | HU3420V181MCZPF |
|                        |                           | 35·25                       | 0.15                       | 0.90                                    | HU3420V181MCAPF |
|                        | 220                       | 25·50                       | 0.15                       | 1.13                                    | HU3420V221MCYPF |
|                        |                           | 30·35                       | 0.15                       | 1.05                                    | HU3420V221MCZPF |
|                        |                           | 35·30                       | 0.15                       | 1.05                                    | HU3420V221MCAPF |
|                        | 270                       | 30·40                       | 0.15                       | 1.22                                    | HU3420V271MCZPF |
|                        |                           | 35·35                       | 0.15                       | 1.23                                    | HU3420V271MCAPF |
|                        | 330                       | 30·50                       | 0.15                       | 1.49                                    | HU3420V331MCZPF |
|                        |                           | 35·40                       | 0.15                       | 1.41                                    | HU3420V331MCAPF |
|                        | 390                       | 35·45                       | 0.15                       | 1.61                                    | HU3420V391MCAPF |
|                        | 470                       | 35·50                       | 0.15                       | 1.85                                    | HU3420V471MCAPF |

| Rated Voltage<br>V. DC | Capacitance<br>( $\mu$ F) | Case size<br>$\phi$ DXL(mm) | $\tan\delta$<br>20°C,120Hz | Ripple current<br>(Arms)<br>105°C,120Hz | Product name  |
|------------------------|---------------------------|-----------------------------|----------------------------|---|---------------|
| 450V(2W)               | 47                        | 22·25                       | 0.15                       | 0.42                                    | HU32W470MCXPF |
|                        |                           | 22·30                       | 0.15                       | 0.55                                    | HU32W680MCXPF |
|                        | 68                        | 25·25                       | 0.15                       | 0.54                                    | HU32W680MCYPF |
|                        |                           | 22·35                       | 0.15                       | 0.64                                    | HU32W820MCXPF |
|                        | 82                        | 25·30                       | 0.15                       | 0.64                                    | HU32W820MCYPF |
|                        |                           | 22·40                       | 0.15                       | 0.74                                    | HU32W101MCXPF |
|                        | 100                       | 25·35                       | 0.15                       | 0.74                                    | HU32W101MCYPF |
|                        |                           | 30·25                       | 0.15                       | 0.71                                    | HU32W101MCZPF |
|                        | 120                       | 22·45                       | 0.15                       | 0.85                                    | HU32W121MCXPF |
|                        |                           | 25·35                       | 0.15                       | 0.80                                    | HU32W121MCYPF |
|                        |                           | 30·30                       | 0.15                       | 0.82                                    | HU32W121MCZPF |
|                        | 150                       | 35·25                       | 0.15                       | 0.82                                    | HU32W121MCAPF |
|                        |                           | 25·45                       | 0.15                       | 1.00                                    | HU32W151MCYPF |
|                        |                           | 30·35                       | 0.15                       | 0.96                                    | HU32W151MCZPF |
|                        | 180                       | 35·30                       | 0.15                       | 0.96                                    | HU32W151MCAPF |
|                        |                           | 25·50                       | 0.15                       | 1.14                                    | HU32W181MCYPF |
|                        |                           | 30·35                       | 0.15                       | 1.06                                    | HU32W181MCZPF |
|                        | 220                       | 35·30                       | 0.15                       | 1.06                                    | HU32W181MCAPF |
|                        |                           | 30·40                       | 0.15                       | 1.22                                    | HU32W221MCZPF |
|                        |                           | 35·35                       | 0.15                       | 1.24                                    | HU32W221MCAPF |
|                        | 270                       | 30·50                       | 0.15                       | 1.48                                    | HU32W271MCZPF |
|                        |                           | 35·40                       | 0.15                       | 1.43                                    | HU32W271MCAPF |
|                        | 330                       | 35·45                       | 0.15                       | 1.64                                    | HU32W331MCAPF |
|                        | 390                       | 35·50                       | 0.15                       | 1.86                                    | HU32W391MCAPF |

| Rated Voltage<br>V. DC | Capacitance<br>( $\mu$ F) | Case size<br>$\phi$ DXL(mm) | $\tan\delta$<br>20°C,120Hz | Ripple current<br>(Arms)<br>105°C,120Hz | Product name  |
|------------------------|---------------------------|-----------------------------|----------------------------|---|---------------|
| 500V(2H)               | 39                        | 22·30                       | 0.20                       | 0.35                                    | HU32H390MCXPF |
|                        |                           | 47                          | 22·35                      | 0.20                                    | 0.41          |
|                        | 56                        | 22·40                       | 0.20                       | 0.47                                    | HU32H560MCXPF |
|                        |                           | 68                          | 22·45                      | 0.20                                    | 0.54          |
|                        | 82                        | 22·40                       | 0.20                       | 0.62                                    | HU32H820MCXPF |
|                        |                           | 100                         | 25·45                      | 0.20                                    | 0.67          |
|                        | 120                       | 25·50                       | 0.20                       | 0.77                                    | HU32H121MCYPF |
|                        |                           | 35·30                       | 0.20                       | 0.72                                    | HU32H121MCAPF |
|                        | 150                       | 30·40                       | 0.20                       | 0.85                                    | HU32H151MCZPF |
|                        | 180                       | 30·50                       | 0.20                       | 1.01                                    | HU32H181MCZPF |
|                        | 220                       | 35·45                       | 0.20                       | 1.12                                    | HU32H221MCAPF |
|                        | 270                       | 35·50                       | 0.20                       | 1.29                                    | HU32H271MCAPF |

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