

# U37F <sup>New!</sup> Series



- Large Can
- Screw Terminals
- General Purpose U37 Grade
- High Ripple
- 350 to 500VDC Ratings
- RoHS Compliant
- 5,000 Hours Lifetime at +85°C
- Up to 150,000 Hours Useful Life



The U37F series is a general purpose, screw mount U37 grade series specifically designed to provide the ripple current capability and long life required for high reliability inverter applications. The U37F has an endurance rating of 5,000 hours at +85°C with the rated ripple current applied. The useful life can exceed 150,000 hours at +40°C and 1.5x the ripple current. These capacitors are available in a variety of high current English or Metric thread terminals. Mounting options include a three-footed clamp or bottom threaded stud. Custom designs are also available.

## Summary of Specifications

- Screw terminals: high and low post, English and Metric thread.
- Capacitance range: 1,500 to 22,000µF.
- Voltage range: 350 to 500VDC.
- Category temperature range: -40°C to +85°C.
- Leakage current: 0.02CV(µA) or 5mA, whichever is smaller, after 5 minutes at +25°C.
- Standard capacitance tolerance: ±20%
- Nominal case size (D×L): D = 50mm (2.000") to 89mm (3.500"); L = 92mm (3.625") to 219mm (8.625").
- Rated lifetime: 5,000 hours at +85°C with rated ripple current applied.

# **U37F** (New!) **Series**

## **U37F Specifications - Screw Terminals**

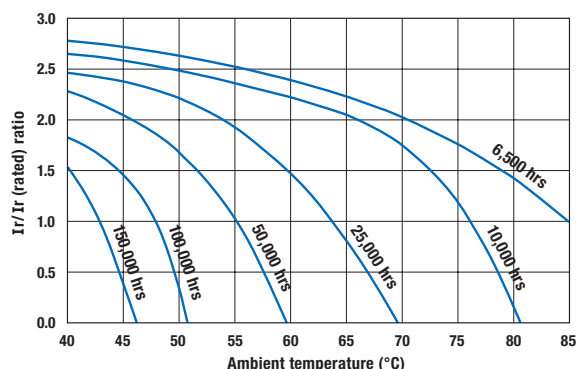
| Item                             | Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                      |       |                                                                                                                                                     |      |                      |    |         |    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------|----|---------|----|
| Category Temperature Range       | − 40 to +85°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |                      |       |                                                                                                                                                     |      |                      |    |         |    |
| Rated Voltage Range              | 350 to 500VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |                      |       |                                                                                                                                                     |      |                      |    |         |    |
| Capacitance Range                | 1,500 to 22,000μF at +25°C, 120Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |                      |       |                                                                                                                                                     |      |                      |    |         |    |
| Capacitance Tolerance            | ±20% (M) at +25°C, 120Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |                      |       |                                                                                                                                                     |      |                      |    |         |    |
| Leakage Current                  | I = 0.02CV (μA) or 5mA, whichever is smaller, after 5 minutes at +25°C.<br>Where I = Max. leakage current (μA), C = Nominal capacitance (μF) and V= Rated voltage (V)                                                                                                                                                                                                                                                                                                            |                    |                      |       |                                                                                                                                                     |      |                      |    |         |    |
| Rated Ripple Current Multipliers | Ambient Temperature (°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |                      |       |                                                                                                                                                     |      |                      |    |         |    |
|                                  | +45°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    | +65°C                |       | +85°C                                                                                                                                               |      |                      |    |         |    |
|                                  | 2.82                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    | 1.73                 |       | 1.00                                                                                                                                                |      |                      |    |         |    |
|                                  | Frequency (Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |                      |       |                                                                                                                                                     |      |                      |    |         |    |
|                                  | DC Rated Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 50Hz               | 120Hz                | 300Hz | 1kHz                                                                                                                                                | 3kHz | 10kHz                |    |         |    |
|                                  | 350-500V                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.80               | 1.00                 | 1.20  | 1.30                                                                                                                                                | 1.40 | 1.41                 |    |         |    |
|                                  | To determine maximum ripple current at a specified temperature and frequency, use the appropriate multiplier shown.                                                                                                                                                                                                                                                                                                                                                              |                    |                      |       |                                                                                                                                                     |      |                      |    |         |    |
| Endurance (Load Life)            | The following specifications shall be satisfied when the capacitors are restored to +25°C after subjecting them to DC voltage for 5,000 hours at +85°C with the rated ripple current applied. The sum of the DC voltage and peak AC voltage must not exceed the full rated voltage of the capacitors.<br><br>Capacitance change: ≤ 20% from initial measurement<br>ESR change : ≤ 200% of initial specified limit<br>Leakage current : ≤ initial specified limit                 |                    |                      |       |                                                                                                                                                     |      |                      |    |         |    |
| Useful Life                      | With specified standard voltage and ripple current applied, typical life as function of ambient temperature is listed below.                                                                                                                                                                                                                                                                                                                                                     |                    |                      |       |                                                                                                                                                     |      |                      |    |         |    |
|                                  | +85°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    | 6,500 hours max.     |       | Capacitance change: ≤ 30% from initial measurement<br>ESR change : ≤ 300% of initial specified limit<br>Leakage current : ≤ initial specified limit |      |                      |    |         |    |
|                                  | +65°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    | 23,800 hours max.    |       |                                                                                                                                                     |      |                      |    |         |    |
| +45°C                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 124,700 hours max. |                      |       |                                                                                                                                                     |      |                      |    |         |    |
| Shelf Life                       | The following specifications shall be satisfied when the capacitors are restored to +25°C after exposing them for 500 hours at +85°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements.<br><br>Capacitance change: ≤ 20% from initial measurement<br>ESR change : ≤ 200% of initial specified limit<br>Leakage current : ≤ initial specified limit |                    |                      |       |                                                                                                                                                     |      |                      |    |         |    |
| Vibration Rating                 | 10-55Hz, 10g sinusoidal in three axes, 2 hours per axis.                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |                      |       |                                                                                                                                                     |      |                      |    |         |    |
| Maximum Tightening Torque        | Terminal Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    | HP                   |       | HL                                                                                                                                                  | CD   | CP                   | CH | CA      | CS |
|                                  | Thread Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    | 10-32 NF-2B          |       | M5x0.8-6H                                                                                                                                           |      | 1/4-28 NF-2B         |    | M6x1-6H |    |
|                                  | 3 Threads Engaged                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    | 2.0 N·m (18.0 in·lb) |       |                                                                                                                                                     |      | 4.0 N·m (35.0 in·lb) |    |         |    |
|                                  | 6 Threads Engaged                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    | 2.8 N·m (25.0 in·lb) |       |                                                                                                                                                     |      | 6.2 N·m (55.0 in·lb) |    |         |    |
| Typical Inductance (nH) at 1MHz  | Case Diameter (mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    | Terminal Code        |       |                                                                                                                                                     |      |                      |    |         |    |
|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    | HP                   | HL    | CD                                                                                                                                                  | CP   | CH                   | CA | CS      |    |
|                                  | ø50.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | —                  | —                    | NA    | NA                                                                                                                                                  | NA   | NA                   | NA |         |    |
|                                  | ø63.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | —                  | —                    | —     | —                                                                                                                                                   | —    | —                    | —  |         |    |
|                                  | ø76.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 30                 | 30                   | 25    | 20                                                                                                                                                  | 25   | 20                   | 25 |         |    |
| ø89.0                            | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 30                 | 25                   | 20    | 25                                                                                                                                                  | 20   | 25                   |    |         |    |
| Custom Designs                   | Custom CV values per case size and termination type may be available upon request. Contact appropriate representative with specific requirements.                                                                                                                                                                                                                                                                                                                                |                    |                      |       |                                                                                                                                                     |      |                      |    |         |    |

# U37F New! Series

## U37F Useful Life

### Useful Life: 6,500 Hours at +85°C

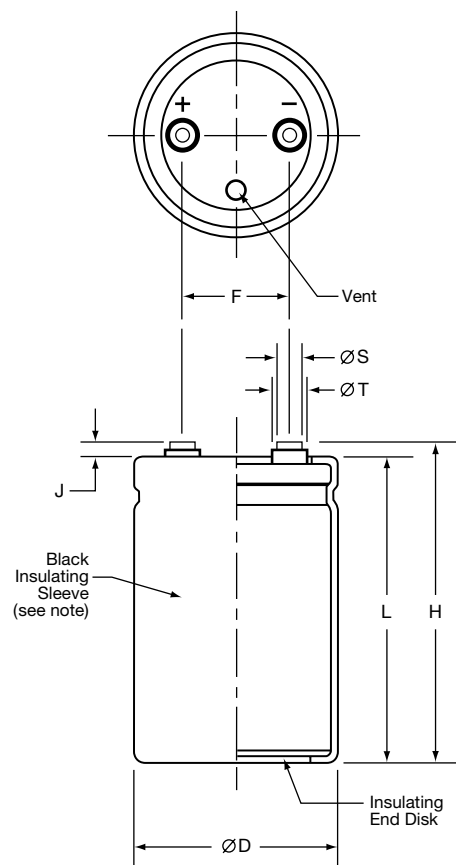
The life expectancy of a capacitor is shown as a function of ambient temperature and ripple current load.



## Diagram of Dimensions - Screw Terminals

### Large Can/Screw Terminals

Unit: mm (inches)



### Case Dimensions and Standard Box Quantities

| Case Size Code                                | ØD<br>+2.0 (0.080) | L<br>±1.0 (0.040)                                                                                    | F<br>±0.25 (0.010) | Standard Box Quantity |
|-----------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------|--------------------|-----------------------|
| CB7<br>CD0                                    | 50.8 (2.000)       | 117 (4.625)<br>130 (5.125)                                                                           | 22.2 (0.875)       | 49                    |
| D92<br>DA5<br>DB7<br>DD0<br>DE3               | 63.5 (2.500)       | 92 (3.625)<br>105 (4.125)<br>117 (4.625)<br>130 (5.125)<br>143 (5.625)                               | 28.6 (1.125)       | 20                    |
| E92<br>EA5<br>EB7<br>EE3<br>EJ1<br>EM9        | 76.2 (3.000)       | 92 (3.625)<br>105 (4.125)<br>117 (4.625)<br>143 (5.625)<br>181 (7.125)<br>219 (8.625)                | 31.8 (1.250)       | 16<br>9               |
| F92<br>FA5<br>FB7<br>FE3<br>FF5<br>FK0<br>FM9 | 89.0 (3.500)       | 92 (3.625)<br>105 (4.125)<br>117 (4.625)<br>143 (5.625)<br>155 (6.125)<br>190 (7.500)<br>219 (8.625) | 31.8 (1.250)       | 5                     |

Note:  
In some cases, the color of the sleeve may change slightly due to the operating conditions, however, the discoloration will not impair capacitor function.

### Terminal Specifications

| Terminal Code | Available Case Diameter |                             | Thread Size  | Minimum Thread Depth | J<br>±0.5 (0.020) | H<br>±2.0 (0.080) | ØS<br>±0.25 (0.010) | ØT<br>±0.25 (0.010) |
|---------------|-------------------------|-----------------------------|--------------|----------------------|-------------------|-------------------|---------------------|---------------------|
|               | ØD Code                 | ØD mm (inches)              |              |                      |                   |                   |                     |                     |
| HP            | C                       | 50.8 (2.000)                | 10-32 NF-2B  | 9.5 (0.375)          | 6.4 (0.250)       | L+J               | 8.0 (0.313)         | 11.1 (0.438)        |
| HL            | C                       | 50.8 (2.000)                | M5x0.8-6H    | 9.5 (0.375)          | 6.4 (0.250)       | L+J               | 8.0 (0.313)         | 11.1 (0.438)        |
| CD            | D-E                     | 63.5 - 76.2 (2.500 - 3.000) | M5x0.8-6H    | 8.5 (0.335)          | 5.0 (0.200)       | L+J               | 13.0 (0.512)        | 18.8 (0.740)        |
| CP            | D-F                     | 63.5 - 89.0 (2.500 - 3.500) | 1/4-28 NF-2B | 8.7 (0.344)          | 2.4 (0.093)       | L+J               | 17.5 (0.689)        | —                   |
| CH            | D-F                     | 63.5 - 89.0 (2.500 - 3.500) | 1/4-28 NF-2B | 11.9 (0.468)         | 6.4 (0.250)       | L+J               | 17.5 (0.689)        | —                   |
| CA            | D-F                     | 63.5 - 89.0 (2.500 - 3.500) | M6x1-6H      | 8.7 (0.344)          | 2.4 (0.093)       | L+J               | 17.5 (0.689)        | —                   |
| CS            | D-F                     | 63.5 - 89.0 (2.500 - 3.500) | M6x1-6H      | 11.9 (0.468)         | 6.4 (0.250)       | L+J               | 17.5 (0.689)        | —                   |

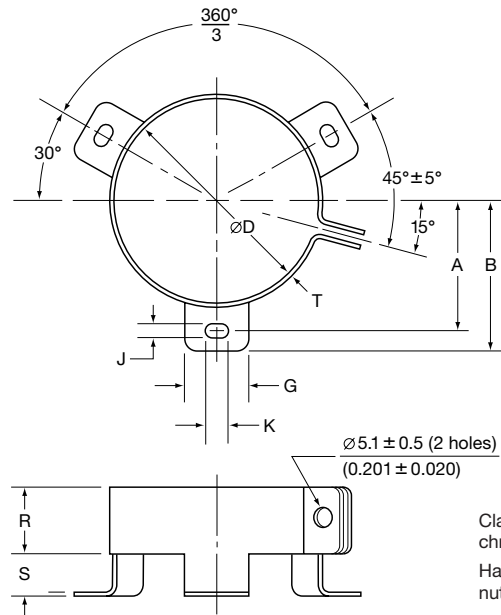
Mounting Hardware is optional. Refer to hardware specifications on the following page.

# U37F New! Series

## Mounting Hardware - Screw Terminals

### Type C: Three-Footed Clamp

Unit: mm (inches)



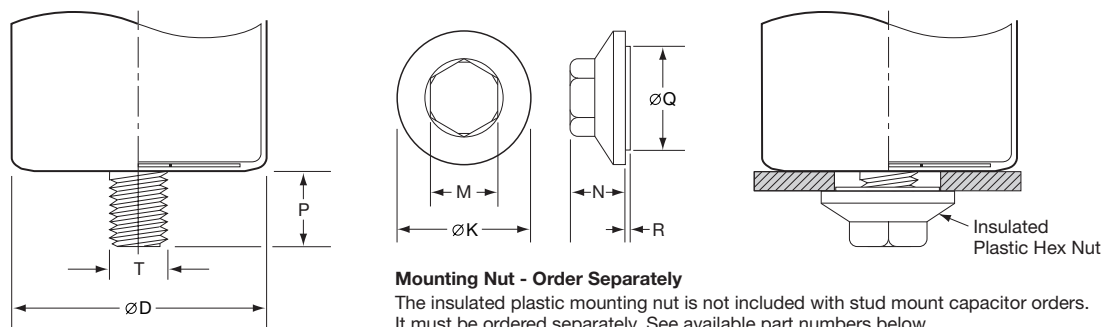
Clamp: Zinc with silver trivalent chromate post treatment.

Hardware: Screw, washer and hexagon nut included with each clamp.

### Type C: Clamp Dimensions

| Mounting Code | Case ØD      | A<br>±1.0 (0.040) | B<br>±1.0 (0.040) | G<br>±1.0 (0.040) | J<br>±0.5 (0.020) | K<br>±0.5 (0.020) | R<br>±1.0 (0.040) | S<br>±1.0 (0.040) | T<br>±0.5 (0.020) |
|---------------|--------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| C             | 50.8 (2.000) | 31.8 (1.250)      | 36.5 (1.437)      | 13.3 (0.524)      | 4.5 (0.177)       | 7.1 (0.280)       | 19.1 (0.751)      | 9.5 (0.374)       | 0.8 (0.032)       |
| C             | 63.5 (2.500) | 38.1 (1.500)      | 42.9 (1.689)      | 13.3 (0.524)      | 4.5 (0.177)       | 7.1 (0.280)       | 19.1 (0.751)      | 9.5 (0.374)       | 0.8 (0.032)       |
| C             | 76.2 (3.000) | 44.5 (1.750)      | 49.2 (1.937)      | 13.3 (0.524)      | 4.5 (0.177)       | 7.1 (0.280)       | 19.1 (0.751)      | 9.5 (0.374)       | 1.0 (0.040)       |
| C             | 89.0 (3.500) | 50.8 (2.000)      | 56.5 (2.224)      | 16.0 (0.630)      | 4.5 (0.177)       | 8.0 (0.313)       | 21.0 (0.827)      | 9.0 (0.354)       | 1.0 (0.040)       |

### Type S: Stud Mounting



### Type S: Stud Dimensions

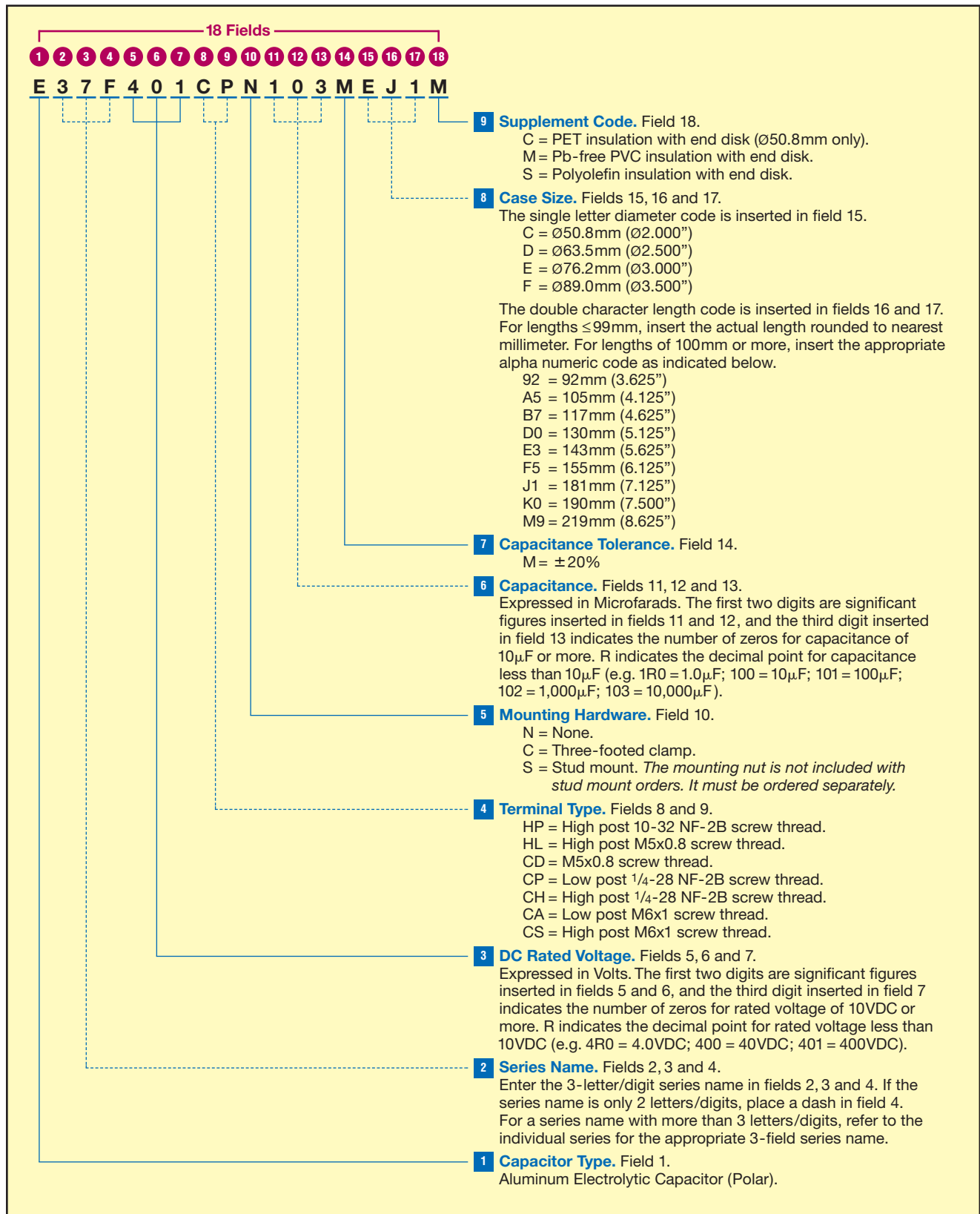
| Mounting Code | P<br>±1.0 (0.040) | T<br>Thread Size |
|---------------|-------------------|------------------|
| S             | 16.0 (0.630)      | M12              |

### Mounting Nut Dimensions

| Part Number | ØK<br>±2.0 (0.080) | M<br>±1.0 (0.040) | N<br>±1.0 (0.040) | ØQ<br>±1.0 (0.040) | R<br>±1.0 (0.040) |
|-------------|--------------------|-------------------|-------------------|--------------------|-------------------|
| 50-8D       | 30.0 (1.181)       | 19.0 (0.748)      | 18.0 (0.709)      | 22.0 (0.866)       | 1.40 (0.055)      |
| 50-8E       | 38.0 (1.496)       | 19.0 (0.748)      | 18.0 (0.709)      | 30.0 (1.181)       | 1.40 (0.055)      |

# U37F New! Series

**Part Numbering System for U37F Series** When ordering, always specify complete 18-field global part number.



# **U37F** (New!) Series

## Standard Voltage Ratings - Screw Terminals

| Rated Voltage (WVDC)                | Capacitance (μF) | Global Part Number† | Nominal Case Size* D × L (mm) | Case Size Code | Maximum ESR (mΩ) at +25°C, 120Hz | Rated Ripple Current (A rms) at +85°C |       |       |
|-------------------------------------|------------------|---------------------|-------------------------------|----------------|----------------------------------|---------------------------------------|-------|-------|
|                                     |                  |                     |                               |                |                                  | 120Hz                                 | 300Hz | >3kHz |
| <b>350 Volts</b><br>400 Volts Surge | 3,300            | E37F351HPN332MCB7M  | 50 × 117                      | CB7            | 28                               | 10.8                                  | 12.9  | 15.1  |
|                                     | 3,900            | E37F351HPN392MCD0M  | 50 × 130                      | CD0            | 23                               | 12.2                                  | 14.6  | 17.0  |
|                                     | 3,300            | E37F351CPN332MD92M  | 63.5 × 92                     | D92            | 28                               | 11.2                                  | 13.4  | 15.6  |
|                                     | 3,900            | E37F351CPN392MDA5M  | 63.5 × 105                    | DA5            | 23                               | 12.7                                  | 15.2  | 17.7  |
|                                     | 4,700            | E37F351CPN472MDB7M  | 63.5 × 117                    | DB7            | 19                               | 14.5                                  | 17.4  | 20.3  |
|                                     | 5,600            | E37F351CPN562MDD0M  | 63.5 × 130                    | DD0            | 16                               | 16.4                                  | 19.7  | 22.9  |
|                                     | 5,600            | E37F351CPN562MDE3M  | 63.5 × 143                    | DE3            | 16                               | 17.0                                  | 20.4  | 23.7  |
|                                     | 4,700            | E37F351CPN472ME92M  | 76.2 × 92                     | E92            | 20                               | 14.5                                  | 17.4  | 20.2  |
|                                     | 5,600            | E37F351CPN562MEA5M  | 76.2 × 105                    | EA5            | 17                               | 16.5                                  | 19.8  | 23.1  |
|                                     | 6,800            | E37F351CPN682MEB7M  | 76.2 × 117                    | EB7            | 14                               | 18.9                                  | 22.6  | 26.4  |
|                                     | 8,200            | E37F351CPN822MEE3M  | 76.2 × 143                    | EE3            | 12                               | 22.2                                  | 26.7  | 31.1  |
|                                     | 12,000           | E37F351CPN123MEJ1M  | 76.2 × 181                    | EJ1            | 8                                | 29.4                                  | 35.2  | 41.1  |
|                                     | 15,000           | E37F351CPN153MEM9M  | 76.2 × 219                    | EM9            | 6                                | 35.4                                  | 42.5  | 49.6  |
|                                     | 6,800            | E37F351CPN682MF92M  | 89 × 92                       | F92            | 14                               | 19.1                                  | 22.9  | 26.7  |
|                                     | 8,200            | E37F351CPN822MFA5M  | 89 × 105                      | FA5            | 12                               | 21.8                                  | 26.2  | 30.5  |
|                                     | 10,000           | E37F351CPN103MFB7M  | 89 × 117                      | FB7            | 10                               | 25.0                                  | 30.0  | 35.0  |
|                                     | 12,000           | E37F351CPN123MFE3M  | 89 × 143                      | FE3            | 8                                | 29.3                                  | 35.2  | 41.1  |
|                                     | 15,000           | E37F351CPN153MFF5M  | 89 × 155                      | FF5            | 6                                | 33.8                                  | 40.5  | 47.3  |
|                                     | 18,000           | E37F351CPN183MFK0M  | 89 × 190                      | FK0            | 5                                | 40.0                                  | 47.9  | 55.9  |
|                                     | 22,000           | E37F351CPN223MFM9M  | 89 × 219                      | FM9            | 4                                | 46.7                                  | 56.0  | 65.4  |
| <b>400 Volts</b><br>450 Volts Surge | 2,700            | E37F401HPN272MCB7M  | 50 × 117                      | CB7            | 30                               | 10.4                                  | 12.5  | 14.6  |
|                                     | 3,300            | E37F401HPN332MCD0M  | 50 × 130                      | CD0            | 26                               | 11.6                                  | 13.9  | 16.2  |
|                                     | 2,700            | E37F401CPN272MD92M  | 63.5 × 92                     | D92            | 30                               | 10.7                                  | 12.9  | 15.0  |
|                                     | 3,300            | E37F401CPN332MDA5M  | 63.5 × 105                    | DA5            | 25                               | 12.3                                  | 14.7  | 17.2  |
|                                     | 3,900            | E37F401CPN392MDB7M  | 63.5 × 117                    | DB7            | 21                               | 13.8                                  | 16.5  | 19.3  |
|                                     | 4,700            | E37F401CPN472MDD0M  | 63.5 × 130                    | DD0            | 19                               | 15.3                                  | 18.3  | 21.4  |
|                                     | 4,700            | E37F401CPN472MDE3M  | 63.5 × 143                    | DE3            | 17                               | 16.8                                  | 20.1  | 23.5  |
|                                     | 3,900            | E37F401CPN392ME92M  | 76.2 × 92                     | E92            | 21                               | 14.3                                  | 17.2  | 20.0  |
|                                     | 5,600            | E37F401CPN562MEA5M  | 76.2 × 105                    | EA5            | 17                               | 16.4                                  | 19.6  | 22.9  |
|                                     | 5,600            | E37F401CPN562MEB7M  | 76.2 × 117                    | EB7            | 15                               | 18.4                                  | 22.0  | 25.7  |
|                                     | 8,200            | E37F401CPN822MEE3M  | 76.2 × 143                    | EE3            | 12                               | 22.3                                  | 26.8  | 31.3  |
|                                     | 10,000           | E37F401CPN103MEJ1M  | 76.2 × 181                    | EJ1            | 9                                | 28.2                                  | 33.8  | 39.5  |
|                                     | 12,000           | E37F401CPN123MEM9M  | 76.2 × 219                    | EM9            | 7                                | 34.0                                  | 40.8  | 47.6  |
|                                     | 5,600            | E37F401CPN562MF92M  | 89 × 92                       | F92            | 15                               | 18.6                                  | 22.3  | 26.1  |
|                                     | 6,800            | E37F401CPN682MFA5M  | 89 × 105                      | FA5            | 12                               | 21.2                                  | 25.5  | 29.7  |
|                                     | 8,200            | E37F401CPN822MFB7M  | 89 × 117                      | FB7            | 11                               | 23.8                                  | 28.6  | 33.4  |
|                                     | 10,000           | E37F401CPN103MFE3M  | 89 × 143                      | FE3            | 8                                | 28.9                                  | 34.7  | 40.5  |
|                                     | 12,000           | E37F401CPN123MFF5M  | 89 × 155                      | FF5            | 7                                | 31.4                                  | 37.7  | 44.0  |
|                                     | 15,000           | E37F401CPN153MFK0M  | 89 × 190                      | FK0            | 6                                | 38.3                                  | 45.9  | 53.6  |
|                                     | 18,000           | E37F401CPN183MFM9M  | 89 × 219                      | FM9            | 5                                | 43.9                                  | 52.7  | 61.5  |
| <b>420 Volts</b><br>470 Volts Surge | 2,700            | E37F421HPN272MCB7M  | 50 × 117                      | CB7            | 34                               | 9.8                                   | 11.7  | 13.7  |
|                                     | 3,300            | E37F421HPN332MCD0M  | 50 × 130                      | CD0            | 28                               | 11.2                                  | 13.4  | 15.7  |
|                                     | 2,700            | E37F421CPN272MD92M  | 63.5 × 92                     | D92            | 34                               | 10.1                                  | 12.1  | 14.1  |
|                                     | 3,300            | E37F421CPN332MDA5M  | 63.5 × 105                    | DA5            | 28                               | 11.7                                  | 14.0  | 16.3  |
|                                     | 3,900            | E37F421CPN392MDB7M  | 63.5 × 117                    | DB7            | 23                               | 13.2                                  | 15.8  | 18.5  |
|                                     | 3,900            | E37F421CPN392MDD0M  | 63.5 × 130                    | DD0            | 23                               | 13.7                                  | 16.4  | 19.1  |
|                                     | 4,700            | E37F421CPN472MDE3M  | 63.5 × 143                    | DE3            | 19                               | 15.5                                  | 18.6  | 21.8  |
|                                     | 3,900            | E37F421CPN392ME92M  | 76.2 × 92                     | E92            | 24                               | 13.2                                  | 15.8  | 18.4  |
|                                     | 4,700            | E37F421CPN472MEA5M  | 76.2 × 105                    | EA5            | 20                               | 15.1                                  | 18.1  | 21.1  |
|                                     | 5,600            | E37F421CPN562MEB7M  | 76.2 × 117                    | EB7            | 17                               | 17.1                                  | 20.5  | 24.0  |
|                                     | 6,800            | E37F421CPN682MEE3M  | 76.2 × 143                    | EE3            | 14                               | 20.2                                  | 24.3  | 28.3  |
|                                     | 10,000           | E37F421CPN103MEJ1M  | 76.2 × 181                    | EJ1            | 10                               | 26.8                                  | 32.2  | 37.5  |
|                                     | 12,000           | E37F421CPN123MEM9M  | 76.2 × 219                    | EM9            | 8                                | 31.7                                  | 38.0  | 44.4  |
|                                     | 5,600            | E37F421CPN562MF92M  | 89 × 92                       | F92            | 17                               | 17.3                                  | 20.8  | 24.2  |
|                                     | 6,800            | E37F421CPN682MFA5M  | 89 × 105                      | FA5            | 14                               | 19.9                                  | 23.8  | 27.8  |

† For terminal, mounting and construction options, refer to the part numbering system for descriptions and codes.

\* Refer to diagram of dimensions for detailed case size specifications.

# **U37F** (New!) Series

## Standard Voltage Ratings - Screw Terminals

| Rated Voltage (WVDC)                 | Capacitance (μF) | Global Part Number† | Nominal Case Size* D × L (mm) | Case Size Code | Maximum ESR (mΩ) at +25°C, 120Hz | Rated Ripple Current (A rms) at +85°C |       |       |
|--------------------------------------|------------------|---------------------|-------------------------------|----------------|----------------------------------|---------------------------------------|-------|-------|
|                                      |                  |                     |                               |                |                                  | 120Hz                                 | 300Hz | >3kHz |
| <b>420 Volts<br/>470 Volts Surge</b> | 8,200            | E37F421CPN822MFB7M  | 89 × 117                      | FB7            | 12                               | 22.7                                  | 27.2  | 31.7  |
|                                      | 10,000           | E37F421CPN103MFE3M  | 89 × 143                      | FE3            | 10                               | 26.8                                  | 32.1  | 37.5  |
|                                      | 12,000           | E37F421CPN123MFF5M  | 89 × 155                      | FF5            | 8                                | 30.3                                  | 36.3  | 42.4  |
|                                      | 15,000           | E37F421CPN153MFK0M  | 89 × 190                      | FK0            | 6                                | 36.5                                  | 43.8  | 51.1  |
|                                      | 18,000           | E37F421CPN183MFM9M  | 89 × 219                      | FM9            | 5                                | 42.2                                  | 50.7  | 59.1  |
| <b>450 Volts<br/>500 Volts Surge</b> | 2,700            | E37F451HPN272MCB7M  | 50 × 117                      | CB7            | 34                               | 9.8                                   | 11.7  | 13.7  |
|                                      | 2,700            | E37F451HPN272MCD0M  | 50 × 130                      | CD0            | 34                               | 10.1                                  | 12.1  | 14.2  |
|                                      | 2,200            | E37F451CPN222MD92M  | 63.5 × 92                     | D92            | 42                               | 9.1                                   | 10.9  | 12.8  |
|                                      | 2,700            | E37F451CPN272MDA5M  | 63.5 × 105                    | DA5            | 34                               | 10.5                                  | 12.7  | 14.8  |
|                                      | 3,300            | E37F451CPN332MDB7M  | 63.5 × 117                    | DB7            | 28                               | 12.1                                  | 14.6  | 17.0  |
|                                      | 3,900            | E37F451CPN392MDD0M  | 63.5 × 130                    | DD0            | 23                               | 13.7                                  | 16.4  | 19.1  |
|                                      | 4,700            | E37F451CPN472MDE3M  | 63.5 × 143                    | DE3            | 19                               | 15.5                                  | 18.6  | 21.8  |
|                                      | 3,900            | E37F451CPN392ME92M  | 76.2 × 92                     | E92            | 24                               | 13.2                                  | 15.8  | 18.4  |
|                                      | 4,700            | E37F451CPN472MEA5M  | 76.2 × 105                    | EA5            | 20                               | 15.1                                  | 18.1  | 21.1  |
|                                      | 5,600            | E37F451CPN562MEB7M  | 76.2 × 117                    | EB7            | 17                               | 17.1                                  | 20.5  | 24.0  |
|                                      | 6,800            | E37F451CPN682MEE3M  | 76.2 × 143                    | EE3            | 14                               | 20.2                                  | 24.3  | 28.3  |
|                                      | 8,200            | E37F451CPN822MEJ1M  | 76.2 × 181                    | EJ1            | 12                               | 24.3                                  | 29.1  | 34.0  |
|                                      | 12,000           | E37F451CPN123MEM9M  | 76.2 × 219                    | EM9            | 8                                | 31.7                                  | 38.0  | 44.4  |
|                                      | 5,600            | E37F451CPN562MF92M  | 89 × 92                       | F92            | 17                               | 17.3                                  | 20.8  | 24.2  |
|                                      | 6,800            | E37F451CPN682MFA5M  | 89 × 105                      | FA5            | 14                               | 19.9                                  | 23.8  | 27.8  |
|                                      | 6,800            | E37F451CPN682MFB7M  | 89 × 117                      | FB7            | 14                               | 20.6                                  | 24.8  | 28.9  |
|                                      | 8,200            | E37F451CPN822MFE3M  | 89 × 143                      | FE3            | 12                               | 24.3                                  | 29.1  | 34.0  |
|                                      | 12,000           | E37F451CPN123MFF5M  | 89 × 155                      | FF5            | 8                                | 30.2                                  | 36.3  | 42.3  |
|                                      | 15,000           | E37F451CPN153MFK0M  | 89 × 190                      | FK0            | 6                                | 36.5                                  | 43.8  | 51.1  |
|                                      | 15,000           | E37F451CPN153MFM9M  | 89 × 219                      | FM9            | 6                                | 38.6                                  | 46.3  | 54.0  |
| <b>500 Volts<br/>550 Volts Surge</b> | 1,500            | E37F501HPN152MCB7M  | 50 × 117                      | CB7            | 63                               | 7.2                                   | 8.6   | 10.1  |
|                                      | 1,800            | E37F501HPN182MCD0M  | 50 × 130                      | CD0            | 55                               | 8.0                                   | 9.6   | 11.2  |
|                                      | 1,800            | E37F501CPN182MD92M  | 63.5 × 92                     | D92            | 52                               | 8.2                                   | 9.8   | 11.5  |
|                                      | 2,200            | E37F501CPN222MDA5M  | 63.5 × 105                    | DA5            | 43                               | 9.4                                   | 11.2  | 13.1  |
|                                      | 2,700            | E37F501CPN272MDB7M  | 63.5 × 117                    | DB7            | 37                               | 10.5                                  | 12.6  | 14.7  |
|                                      | 3,300            | E37F501CPN332MDD0M  | 63.5 × 130                    | DD0            | 32                               | 11.7                                  | 14.0  | 16.3  |
|                                      | 3,300            | E37F501CPN332MDE3M  | 63.5 × 143                    | DE3            | 29                               | 12.8                                  | 15.4  | 17.9  |
|                                      | 2,700            | E37F501CPN272ME92M  | 76.2 × 92                     | E92            | 36                               | 10.9                                  | 13.1  | 15.3  |
|                                      | 3,300            | E37F501CPN332MEA5M  | 76.2 × 105                    | EA5            | 30                               | 12.5                                  | 15.0  | 17.5  |
|                                      | 3,900            | E37F501CPN392MEB7M  | 76.2 × 117                    | EB7            | 25                               | 14.0                                  | 16.8  | 19.6  |
|                                      | 5,600            | E37F501CPN562MEE3M  | 76.2 × 143                    | EE3            | 20                               | 17.1                                  | 20.5  | 23.9  |
|                                      | 6,800            | E37F501CPN682MEJ1M  | 76.2 × 181                    | EJ1            | 15                               | 21.5                                  | 25.8  | 30.1  |
|                                      | 8,200            | E37F501CPN822MEM9M  | 76.2 × 219                    | EM9            | 12                               | 26.0                                  | 31.2  | 36.3  |
|                                      | 3,900            | E37F501CPN392MF92M  | 89 × 92                       | F92            | 25                               | 14.2                                  | 17.1  | 19.9  |
|                                      | 4,700            | E37F501CPN472MFA5M  | 89 × 105                      | FA5            | 21                               | 16.2                                  | 19.5  | 22.7  |
|                                      | 5,600            | E37F501CPN562MFB7M  | 89 × 117                      | FB7            | 18                               | 18.2                                  | 21.8  | 25.5  |
|                                      | 6,800            | E37F501CPN682MFE3M  | 89 × 143                      | FE3            | 14                               | 22.1                                  | 26.5  | 30.9  |
|                                      | 8,200            | E37F501CPN822MFF5M  | 89 × 155                      | FF5            | 13                               | 24.0                                  | 28.8  | 33.6  |
|                                      | 10,000           | E37F501CPN103MFK0M  | 89 × 190                      | FK0            | 10                               | 29.2                                  | 35.1  | 40.9  |
|                                      | 12,000           | E37F501CPN123MFM9M  | 89 × 219                      | FM9            | 8                                | 33.5                                  | 40.2  | 46.9  |

†For terminal, mounting and construction options, refer to the part numbering system for descriptions and codes.

\* Refer to diagram of dimensions for detailed case size specifications.



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**Телефон:** +7 812 627 14 35

**Электронная почта:** [sales@st-electron.ru](mailto:sales@st-electron.ru)

**Адрес:** 198099, Санкт-Петербург,  
Промышленная ул, дом № 19, литера Н,  
помещение 100-Н Офис 331