

# U37L Series



- **Large Can**
- **Screw Terminals**
- **General Purpose U37 Grade**
- **High Ripple**
- **350 to 500VDC Ratings**
- **RoHS Compliant**
- **10,000 Hours Lifetime at +85°C**
- **Up to 175,000 Hours Useful Life**



The U37L series is a longer life version of the U37 grade series and is specifically designed to provide the ripple current capability and long life required for high reliability inverter applications. The U37L has an endurance rating of 10,000 hours at +85°C with the rated ripple current applied. The useful life can exceed 175,000 hours at +40°C and 2x 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 18,000µF.**
- **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: 10,000 hours at +85°C with rated ripple current applied.**

# U37L Series

## U37L Specifications - Screw Terminals

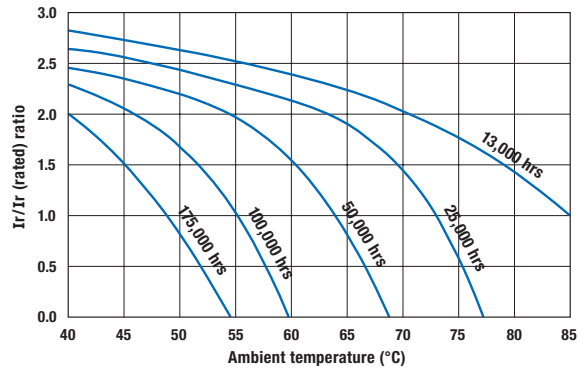
| Item                             | Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                      |       |                                                                                                                                                     |      |                      |    |         |    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------|----|---------|----|
| Category Temperature Range       | − 40 to +85°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |                      |       |                                                                                                                                                     |      |                      |    |         |    |
| Rated Voltage Range              | 350 to 500VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |                      |       |                                                                                                                                                     |      |                      |    |         |    |
| Capacitance Range                | 1,500 to 18,000μF 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 10,000 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    | 13,000 hours max.    |       | Capacitance change: ≤ 30% from initial measurement<br>ESR change : ≤ 300% of initial specified limit<br>Leakage current : ≤ initial specified limit |      |                      |    |         |    |
|                                  | +65°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    | 47,700 hours max.    |       |                                                                                                                                                     |      |                      |    |         |    |
| +45°C                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 175,000 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.                                                                                                                                                                                                                                                                                                                                |                    |                      |       |                                                                                                                                                     |      |                      |    |         |    |

## U37L Series

### U37L Useful Life

#### Useful Life: 13,000 Hours at +85°C

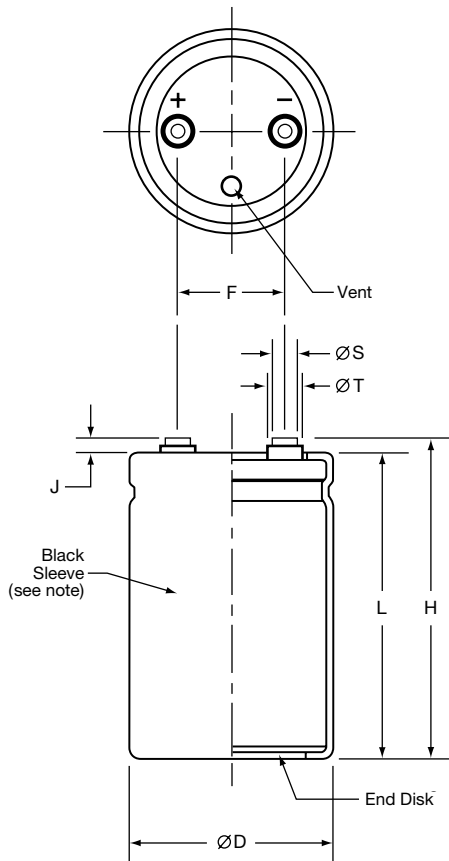
The life expectancy of a capacitor is shown as a function of ambient temperature and ripple current load.



### 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)        | —                   |

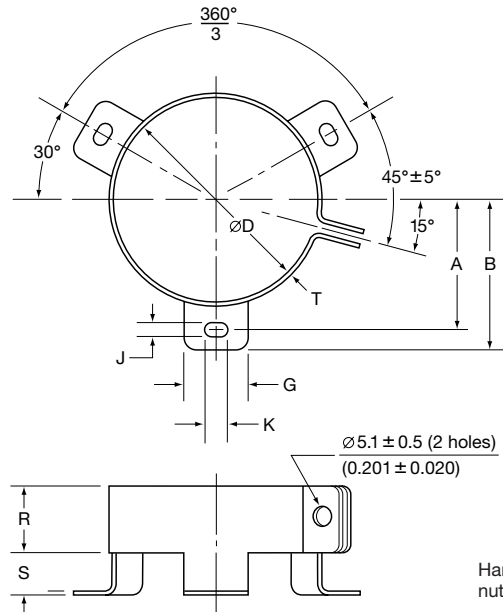
Mounting Hardware is optional. Refer to hardware specifications on the following page.

# U37L Series

## Mounting Hardware - Screw Terminals

### Type C: Three-Footed Clamp

Unit: mm (inches)

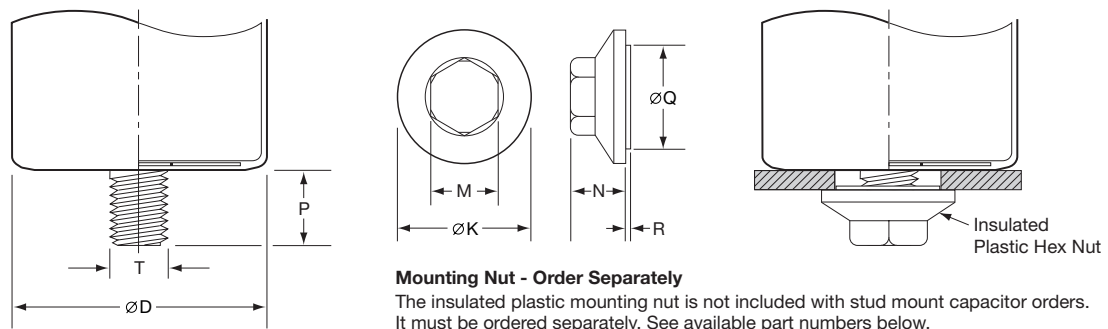


Hardware: Screw, washer and hexagon nut included with each clamp.

### 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



#### Mounting Nut - Order Separately

The insulated plastic mounting nut is not included with stud mount capacitor orders. It must be ordered separately. See available part numbers below.

### Type S: Stud Dimensions

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

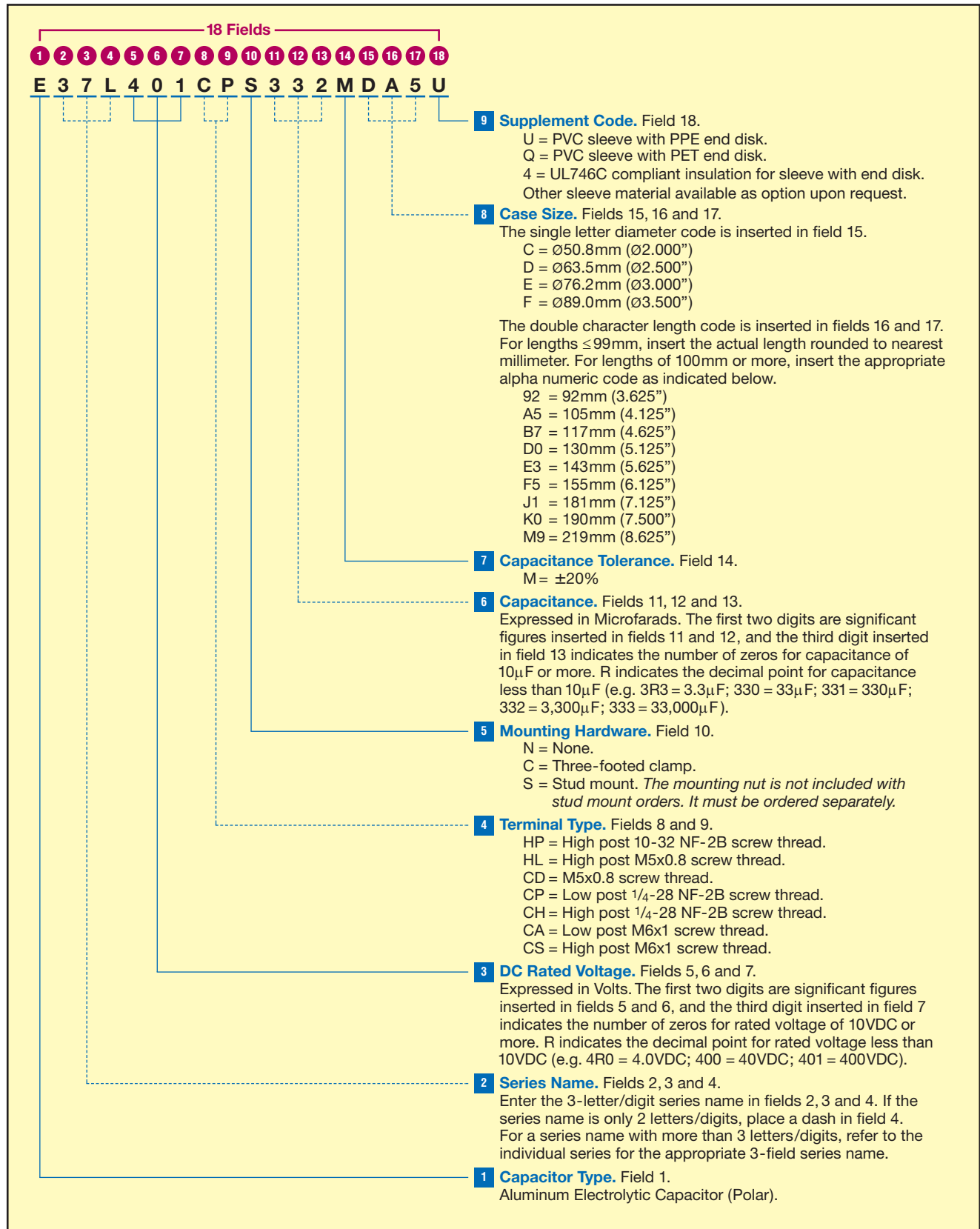
### Mounting Nut Dimensions

| 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)      |

# U37L Series

## Part Numbering System for U37L Series

When ordering, always specify complete 18-field global part number.





# U37L 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 |
| 350 Volts<br>400 Volts Surge | 3,300            | E37L351HPN332MCB7U  | 50 × 117                      | CB7            | 29                               | 10.6                                  | 12.7  | 14.8  |
|                              | 3,300            | E37L351HPN332MCD0U  | 50 × 130                      | CD0            | 29                               | 11.0                                  | 13.1  | 15.3  |
|                              | 3,300            | E37L351CPN332MD92U  | 63.5 × 92                     | D92            | 30                               | 10.7                                  | 12.8  | 15.0  |
|                              | 3,900            | E37L351CPN392MDA5U  | 63.5 × 105                    | DA5            | 26                               | 12.2                                  | 14.6  | 17.0  |
|                              | 3,900            | E37L351CPN392MDB7U  | 63.5 × 117                    | DB7            | 26                               | 12.6                                  | 15.2  | 17.7  |
|                              | 4,700            | E37L351CPN472MDD0U  | 63.5 × 130                    | DD0            | 21                               | 14.4                                  | 17.3  | 20.2  |
|                              | 5,600            | E37L351CPN562MDE3U  | 63.5 × 143                    | DE3            | 18                               | 16.3                                  | 19.5  | 22.8  |
|                              | 4,700            | E37L351CPN472ME92U  | 76.2 × 92                     | E92            | 22                               | 13.9                                  | 16.7  | 19.5  |
|                              | 5,600            | E37L351CPN562MEA5U  | 76.2 × 105                    | EA5            | 18                               | 15.8                                  | 19.0  | 22.1  |
|                              | 6,800            | E37L351CPN682MEB7U  | 76.2 × 117                    | EB7            | 15                               | 18.1                                  | 21.7  | 25.4  |
|                              | 8,200            | E37L351CPN822MEE3U  | 76.2 × 143                    | EE3            | 13                               | 21.3                                  | 25.6  | 29.9  |
|                              | 12,000           | E37L351CPN123MEJ1U  | 76.2 × 181                    | EJ1            | 9                                | 28.2                                  | 33.9  | 39.5  |
|                              | 15,000           | E37L351CPN153MEM9U  | 76.2 × 219                    | EM9            | 7                                | 34.0                                  | 40.8  | 47.6  |
|                              | 6,800            | E37L351CPN682MF92U  | 89 × 92                       | F92            | 15                               | 18.3                                  | 22.0  | 25.6  |
|                              | 8,200            | E37L351CPN822MFA5U  | 89 × 105                      | FA5            | 13                               | 21.0                                  | 25.2  | 29.3  |
|                              | 8,200            | E37L351CPN822MFB7U  | 89 × 117                      | FB7            | 13                               | 21.8                                  | 26.1  | 30.5  |
|                              | 12,000           | E37L351CPN123MFE3U  | 89 × 143                      | FE3            | 9                                | 28.2                                  | 33.8  | 39.5  |
|                              | 12,000           | E37L351CPN123MFF5U  | 89 × 155                      | FF5            | 9                                | 29.0                                  | 34.8  | 40.6  |
|                              | 15,000           | E37L351CPN153MFK0U  | 89 × 190                      | FK0            | 7                                | 35.0                                  | 42.0  | 49.1  |
|                              | 18,000           | E37L351CPN183MFM9U  | 89 × 219                      | FM9            | 6                                | 41.1                                  | 49.4  | 57.6  |
| 400 Volts<br>450 Volts Surge | 2,700            | E37L401HPN272MCB7U  | 50 × 117                      | CB7            | 35                               | 9.5                                   | 11.5  | 13.4  |
|                              | 3,300            | E37L401HPN332MCD0U  | 50 × 130                      | CD0            | 29                               | 11.0                                  | 13.1  | 15.3  |
|                              | 2,700            | E37L401CPN272MD92U  | 63.5 × 92                     | D92            | 37                               | 9.7                                   | 11.6  | 13.6  |
|                              | 3,300            | E37L401CPN332MDA5U  | 63.5 × 105                    | DA5            | 30                               | 11.2                                  | 13.4  | 15.7  |
|                              | 3,900            | E37L401CPN392MDB7U  | 63.5 × 117                    | DB7            | 26                               | 12.6                                  | 15.2  | 17.7  |
|                              | 3,900            | E37L401CPN392MDD0U  | 63.5 × 130                    | DD0            | 26                               | 13.1                                  | 15.7  | 18.4  |
|                              | 4,700            | E37L401CPN472MDE3U  | 63.5 × 143                    | DE3            | 21                               | 14.9                                  | 17.9  | 20.9  |
|                              | 3,900            | E37L401CPN392ME92U  | 76.2 × 92                     | E92            | 27                               | 12.7                                  | 15.2  | 17.7  |
|                              | 4,700            | E37L401CPN472MEA5U  | 76.2 × 105                    | EA5            | 22                               | 14.5                                  | 17.4  | 20.3  |
|                              | 5,600            | E37L401CPN562MEB7U  | 76.2 × 117                    | EB7            | 18                               | 16.4                                  | 19.7  | 23.0  |
|                              | 6,800            | E37L401CPN682MEE3U  | 76.2 × 143                    | EE3            | 15                               | 19.4                                  | 23.3  | 27.2  |
|                              | 10,000           | E37L401CPN103MEJ1U  | 76.2 × 181                    | EJ1            | 10                               | 25.8                                  | 30.9  | 36.1  |
|                              | 12,000           | E37L401CPN123MEM9U  | 76.2 × 219                    | EM9            | 9                                | 30.4                                  | 36.5  | 42.6  |
|                              | 5,600            | E37L401CPN562MF92U  | 89 × 92                       | F92            | 18                               | 16.6                                  | 20.0  | 23.3  |
|                              | 6,800            | E37L401CPN682MFA5U  | 89 × 105                      | FA5            | 15                               | 19.1                                  | 22.9  | 26.7  |
|                              | 8,200            | E37L401CPN822MFB7U  | 89 × 117                      | FB7            | 13                               | 21.8                                  | 26.1  | 30.5  |
|                              | 10,000           | E37L401CPN103MFE3U  | 89 × 143                      | FE3            | 10                               | 25.7                                  | 30.9  | 36.0  |
|                              | 12,000           | E37L401CPN123MFF5U  | 89 × 155                      | FF5            | 9                                | 29.0                                  | 34.8  | 40.6  |
|                              | 15,000           | E37L401CPN153MFK0U  | 89 × 190                      | FK0            | 7                                | 35.0                                  | 42.0  | 49.1  |
|                              | 18,000           | E37L401CPN183MFM9U  | 89 × 219                      | FM9            | 6                                | 40.6                                  | 48.7  | 56.8  |
| 420 Volts<br>470 Volts Surge | 2,700            | E37L421HPN272MCB7U  | 50 × 117                      | CB7            | 35                               | 9.5                                   | 11.5  | 13.4  |
|                              | 2,900            | E37L421HPN292MCD0U  | 50 × 130                      | CD0            | 33                               | 10.3                                  | 12.3  | 14.4  |
|                              | 2,200            | E37L421CPN222MD92U  | 63.5 × 92                     | D92            | 45                               | 8.7                                   | 10.5  | 12.2  |
|                              | 2,700            | E37L421CPN272MDA5U  | 63.5 × 105                    | DA5            | 37                               | 10.1                                  | 12.1  | 14.2  |
|                              | 3,300            | E37L421CPN332MDB7U  | 63.5 × 117                    | DB7            | 30                               | 11.6                                  | 14.0  | 16.3  |
|                              | 3,900            | E37L421CPN392MDD0U  | 63.5 × 130                    | DD0            | 26                               | 13.1                                  | 15.7  | 18.4  |
|                              | 4,700            | E37L421CPN472MDE3U  | 63.5 × 143                    | DE3            | 21                               | 14.9                                  | 17.9  | 20.9  |
|                              | 3,900            | E37L421CPN392ME92U  | 76.2 × 92                     | E92            | 27                               | 12.7                                  | 15.2  | 17.7  |
|                              | 4,700            | E37L421CPN472MEA5U  | 76.2 × 105                    | EA5            | 22                               | 14.5                                  | 17.4  | 20.3  |
|                              | 5,600            | E37L421CPN562MEB7U  | 76.2 × 117                    | EB7            | 18                               | 16.4                                  | 19.7  | 23.0  |
|                              | 6,800            | E37L421CPN682MEE3U  | 76.2 × 143                    | EE3            | 15                               | 19.4                                  | 23.3  | 27.2  |
|                              | 8,200            | E37L421CPN822MEJ1U  | 76.2 × 181                    | EJ1            | 13                               | 23.3                                  | 28.0  | 32.7  |
|                              | 12,000           | E37L421CPN123MEM9U  | 76.2 × 219                    | EM9            | 9                                | 30.4                                  | 36.5  | 42.6  |
|                              | 5,600            | E37L421CPN562MF92U  | 89 × 92                       | F92            | 18                               | 16.6                                  | 20.0  | 23.3  |
|                              | 6,800            | E37L421CPN682MFA5U  | 89 × 105                      | FA5            | 15                               | 19.1                                  | 22.9  | 26.7  |

† 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.



# U37L 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 |
| 420 Volts<br>470 Volts Surge | 6,800            | E37L421CPN682MFB7U  | 89 × 117                      | FB7            | 15                               | 19.8                                  | 23.8  | 27.8  |
|                              | 10,000           | E37L421CPN103MFE3U  | 89 × 143                      | FE3            | 10                               | 25.7                                  | 30.9  | 36.0  |
|                              | 10,000           | E37L421CPN103MFF5U  | 89 × 155                      | FF5            | 10                               | 26.5                                  | 31.8  | 37.1  |
|                              | 12,000           | E37L421CPN123MFK0U  | 89 × 190                      | FK0            | 9                                | 31.3                                  | 37.6  | 43.9  |
|                              | 15,000           | E37L421CPN153MFM9U  | 89 × 219                      | FM9            | 7                                | 37.0                                  | 44.5  | 51.9  |
| 450 Volts<br>500 Volts Surge | 2,200            | E37L451HPN222MCB7U  | 50 × 117                      | CB7            | 43                               | 8.6                                   | 10.3  | 12.1  |
|                              | 2,200            | E37L451HPN222MCD0U  | 50 × 130                      | CD0            | 43                               | 8.9                                   | 10.7  | 12.5  |
|                              | 2,200            | E37L451CPN222MD92U  | 63.5 × 92                     | D92            | 45                               | 8.7                                   | 10.5  | 12.2  |
|                              | 2,200            | E37L451CPN222MDA5U  | 63.5 × 105                    | DA5            | 45                               | 9.1                                   | 11.0  | 12.8  |
|                              | 2,700            | E37L451CPN272MDB7U  | 63.5 × 117                    | DB7            | 37                               | 10.5                                  | 12.6  | 14.7  |
|                              | 3,300            | E37L451CPN332MDD0U  | 63.5 × 130                    | DD0            | 30                               | 12.1                                  | 14.5  | 16.9  |
|                              | 3,900            | E37L451CPN392MDE3U  | 63.5 × 143                    | DE3            | 26                               | 13.6                                  | 16.3  | 19.0  |
|                              | 3,300            | E37L451CPN332ME92U  | 76.2 × 92                     | E92            | 31                               | 11.6                                  | 14.0  | 16.3  |
|                              | 3,900            | E37L451CPN392MEA5U  | 76.2 × 105                    | EA5            | 27                               | 13.2                                  | 15.8  | 18.5  |
|                              | 4,700            | E37L451CPN472MEB7U  | 76.2 × 117                    | EB7            | 22                               | 15.1                                  | 18.1  | 21.1  |
|                              | 5,600            | E37L451CPN562MEE3U  | 76.2 × 143                    | EE3            | 18                               | 17.6                                  | 21.2  | 24.7  |
|                              | 6,800            | E37L451CPN682MEJ1U  | 76.2 × 181                    | EJ1            | 15                               | 21.2                                  | 25.5  | 29.7  |
|                              | 10,000           | E37L451CPN103MEM9U  | 76.2 × 219                    | EM9            | 10                               | 27.8                                  | 33.3  | 38.9  |
|                              | 4,700            | E37L451CPN472MF92U  | 89 × 92                       | F92            | 22                               | 15.2                                  | 18.3  | 21.3  |
|                              | 5,600            | E37L451CPN562MFA5U  | 89 × 105                      | FA5            | 18                               | 17.3                                  | 20.8  | 24.2  |
|                              | 5,600            | E37L451CPN562MFB7U  | 89 × 117                      | FB7            | 18                               | 18.0                                  | 21.6  | 25.2  |
|                              | 8,200            | E37L451CPN822MFE3U  | 89 × 143                      | FE3            | 13                               | 23.3                                  | 28.0  | 32.6  |
|                              | 8,200            | E37L451CPN822MFF5U  | 89 × 155                      | FF5            | 13                               | 24.0                                  | 28.8  | 33.6  |
|                              | 12,000           | E37L451CPN123MFK0U  | 89 × 190                      | FK0            | 9                                | 31.3                                  | 37.6  | 43.9  |
|                              | 12,000           | E37L451CPN123MFM9U  | 89 × 219                      | FM9            | 9                                | 33.1                                  | 39.8  | 46.4  |
| 500 Volts<br>550 Volts Surge | 1,500            | E37L501HPN152MCB7U  | 50 × 117                      | CB7            | 64                               | 7.1                                   | 8.5   | 10.0  |
|                              | 1,500            | E37L501HPN152MCD0U  | 50 × 130                      | CD0            | 64                               | 7.4                                   | 8.9   | 10.3  |
|                              | 1,800            | E37L501CPN182MD92U  | 63.5 × 92                     | D92            | 55                               | 7.9                                   | 9.5   | 11.1  |
|                              | 2,200            | E37L501CPN222MDA5U  | 63.5 × 105                    | DA5            | 45                               | 9.1                                   | 11.0  | 12.8  |
|                              | 2,200            | E37L501CPN222MDB7U  | 63.5 × 117                    | DB7            | 45                               | 9.5                                   | 11.4  | 13.3  |
|                              | 2,700            | E37L501CPN272MDD0U  | 63.5 × 130                    | DD0            | 37                               | 10.9                                  | 13.1  | 15.3  |
|                              | 2,700            | E37L501CPN272MDE3U  | 63.5 × 143                    | DE3            | 37                               | 11.3                                  | 13.6  | 15.8  |
|                              | 2,700            | E37L501CPN272ME92U  | 76.2 × 92                     | E92            | 38                               | 10.5                                  | 12.6  | 14.7  |
|                              | 3,300            | E37L501CPN332MEA5U  | 76.2 × 105                    | EA5            | 31                               | 12.1                                  | 14.6  | 17.0  |
|                              | 3,300            | E37L501CPN332MEB7U  | 76.2 × 117                    | EB7            | 31                               | 12.6                                  | 15.2  | 17.7  |
|                              | 4,700            | E37L501CPN472MEE3U  | 76.2 × 143                    | EE3            | 22                               | 16.2                                  | 19.4  | 22.6  |
|                              | 5,600            | E37L501CPN562MEJ1U  | 76.2 × 181                    | EJ1            | 18                               | 19.3                                  | 23.1  | 27.0  |
|                              | 8,200            | E37L501CPN822MEM9U  | 76.2 × 219                    | EM9            | 13                               | 25.2                                  | 30.2  | 35.2  |
|                              | 3,900            | E37L501CPN392MF92U  | 89 × 92                       | F92            | 27                               | 13.9                                  | 16.6  | 19.4  |
|                              | 3,900            | E37L501CPN392MFA5U  | 89 × 105                      | FA5            | 27                               | 14.5                                  | 17.3  | 20.2  |
|                              | 4,700            | E37L501CPN472MFB7U  | 89 × 117                      | FB7            | 22                               | 16.5                                  | 19.8  | 23.1  |
|                              | 6,800            | E37L501CPN682MFE3U  | 89 × 143                      | FE3            | 15                               | 21.2                                  | 25.5  | 29.7  |
|                              | 6,800            | E37L501CPN682MFF5U  | 89 × 155                      | FF5            | 15                               | 21.9                                  | 26.2  | 30.6  |
|                              | 8,200            | E37L501CPN822MFK0U  | 89 × 190                      | FK0            | 12                               | 26.7                                  | 32.0  | 37.4  |
|                              | 10,000           | E37L501CPN103MFM9U  | 89 × 219                      | FM9            | 9                                | 33.1                                  | 39.8  | 46.4  |

† 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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