

### Radial Lead Type

Series: FM Type :A

#### ■ Features

Low impedance (40 to 70% less than FC Series)  
Endurance : 2000 to 7000 hours at +105°C  
RoHS directive compliant

Country of Origin

Japan  
Malaysia  
China



#### ■ Specifications

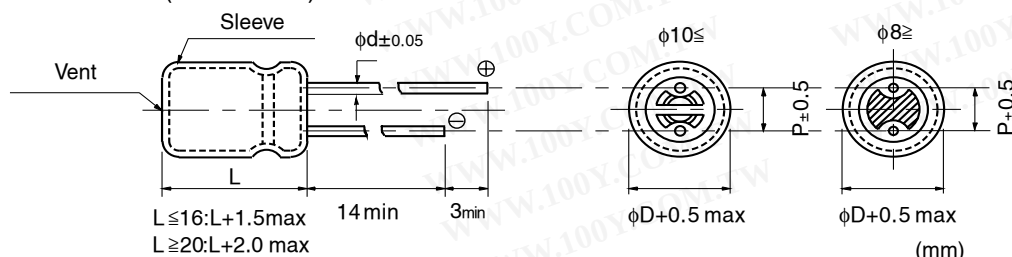
|                                                     |                                                                                                                                                                                                                               |      |                                                  |      |      |      |      |                                                                             |     |    |    |    |    |    |       |      |      |      |      |      |      |                      |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------|------|------|------|------|-----------------------------------------------------------------------------|-----|----|----|----|----|----|-------|------|------|------|------|------|------|----------------------|
| Category temp. range                                | -40 to +105°C                                                                                                                                                                                                                 |      |                                                  |      |      |      |      | 胜特力电子(上海) 86-21-5415117<br>胜特力电子(深圳) 86-755-83298<br>Http://www.100y.com.tw |     |    |    |    |    |    |       |      |      |      |      |      |      |                      |
| Rated W.V. Range                                    | 6.3 to 50 V .DC                                                                                                                                                                                                               |      |                                                  |      |      |      |      |                                                                             |     |    |    |    |    |    |       |      |      |      |      |      |      |                      |
| Nominal Cap. Range                                  | 22 to 6800 μ F                                                                                                                                                                                                                |      |                                                  |      |      |      |      |                                                                             |     |    |    |    |    |    |       |      |      |      |      |      |      |                      |
| Capacitance Tolerance                               | ±20 % (120Hz/+20°C)                                                                                                                                                                                                           |      |                                                  |      |      |      |      |                                                                             |     |    |    |    |    |    |       |      |      |      |      |      |      |                      |
| DC Leakage Current                                  | I ≤ 0.01 CV (μA)<br>after 2 minutes application of rated working voltage at +20°C                                                                                                                                             |      |                                                  |      |      |      |      |                                                                             |     |    |    |    |    |    |       |      |      |      |      |      |      |                      |
| tan δ                                               | <table><tr><td>W.V.</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>tan δ</td><td>0.22</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td></tr></table>                 |      |                                                  |      |      |      |      | W.V.                                                                        | 6.3 | 10 | 16 | 25 | 35 | 50 | tan δ | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | (max.) (120Hz/+20C°) |
|                                                     | W.V.                                                                                                                                                                                                                          | 6.3  | 10                                               | 16   | 25   | 35   | 50   |                                                                             |     |    |    |    |    |    |       |      |      |      |      |      |      |                      |
|                                                     | tan δ                                                                                                                                                                                                                         | 0.22 | 0.19                                             | 0.16 | 0.14 | 0.12 | 0.10 |                                                                             |     |    |    |    |    |    |       |      |      |      |      |      |      |                      |
| Add 0.02 per 1000μF for products of 1000μF or more. |                                                                                                                                                                                                                               |      |                                                  |      |      |      |      |                                                                             |     |    |    |    |    |    |       |      |      |      |      |      |      |                      |
|                                                     |                                                                                                                                                                                                                               |      |                                                  |      |      |      |      |                                                                             |     |    |    |    |    |    |       |      |      |      |      |      |      |                      |
| Endurance                                           | After following life test with DC voltage and +105±2°C ripple current value applied (The sum of DC and ripple peak voltage shall not exceed the rated working voltage), the capacitors shall meet the limits specified below. |      |                                                  |      |      |      |      |                                                                             |     |    |    |    |    |    |       |      |      |      |      |      |      |                      |
|                                                     | Duration<br>φ5 to φ6.3: 2000 hours, φ8×11.5 to φ8×15: 3000 hours<br>φ8×20 to φ10×16: 4000 hours, φ10×20 to φ12.5×20/ φ16×20: 5000 hours<br>φ12.5×25 to φ12.5×35/ φ16×25: 7000 hours                                           |      |                                                  |      |      |      |      |                                                                             |     |    |    |    |    |    |       |      |      |      |      |      |      |                      |
|                                                     | Capacitance change                                                                                                                                                                                                            |      | ±25% of initial measured value (6.3V to10V:±30%) |      |      |      |      |                                                                             |     |    |    |    |    |    |       |      |      |      |      |      |      |                      |
|                                                     | tan δ                                                                                                                                                                                                                         |      | ≤ 200 % of initial specified value               |      |      |      |      |                                                                             |     |    |    |    |    |    |       |      |      |      |      |      |      |                      |
|                                                     | DC leakage current                                                                                                                                                                                                            |      | ≤ initial specified value                        |      |      |      |      |                                                                             |     |    |    |    |    |    |       |      |      |      |      |      |      |                      |
| Shelf Life                                          | After storage for 1000 hours at +105±2 °C with no voltage applied and then being stabilized at +20 °C, capacitor shall meet the limits specified in Endurance.(With voltage treatment)                                        |      |                                                  |      |      |      |      |                                                                             |     |    |    |    |    |    |       |      |      |      |      |      |      |                      |

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#### ■ Frequency correction factor for ripple current

| W.V.(V.DC) | Capacitance (μF) | Frequency(Hz) |      |      |      |      |
|------------|------------------|---------------|------|------|------|------|
|            |                  | 60            | 120  | 1k   | 10k  | 100k |
| 6.3 to 50  | 22 to 33         | 0.45          | 0.55 | 0.75 | 0.90 | 1.00 |
|            | 47 to 330        | 0.60          | 0.70 | 0.85 | 0.95 | 1.00 |
|            | 390 to 1000      | 0.65          | 0.75 | 0.90 | 0.98 | 1.00 |
|            | 1200 to 6800     | 0.75          | 0.80 | 0.95 | 1.00 | 1.00 |

#### ■ Dimensions in mm (not to scale)



|               |     |     |     |     |            |          |
|---------------|-----|-----|-----|-----|------------|----------|
| Body Dia. φD  | 5   | 6.3 | 8   | 10  | 12.5       | 16       |
| Body Length L | —   | —   | —   | —   | 12.5 to 25 | 30 to 35 |
| Lead Dia. φd  | 0.5 | 0.5 | 0.6 | 0.6 | 0.6        | 0.8      |
| Lead space P  | 2   | 2.5 | 3.5 | 5.0 | 5.0        | 7.5      |

### ■ Case size VS Impedance

| Case size<br>( $\phi D \times L$ ) | 6.3 to 35                        |       |                                    | 50                               |       |                                    |
|------------------------------------|----------------------------------|-------|------------------------------------|----------------------------------|-------|------------------------------------|
|                                    | Impedance<br>( $\Omega$ /100kHz) |       | Ripple current<br>(mA.rms./100kHz) | Impedance<br>( $\Omega$ /100kHz) |       | Ripple current<br>(mA.rms./100kHz) |
|                                    | +20°C                            | -10°C | +105°C                             | +20°C                            | -10°C | +105°C                             |
| 5 × 11                             | 0.300                            | 1.000 | 280                                | 0.340                            | 1.130 | 250                                |
| 6.3 × 11.2                         | 0.130                            | 0.430 | 455                                | 0.140                            | 0.460 | 405                                |
| 8 × 11.5                           | 0.056                            | 0.168 | 950                                | 0.061                            | 0.183 | 870                                |
| 8 × 15                             | 0.041                            | 0.123 | 1240                               | 0.045                            | 0.135 | 1140                               |
| 8 × 20                             | 0.030                            | 0.090 | 1560                               | 0.033                            | 0.099 | 1430                               |
| 10 × 12.5                          | 0.038                            | 0.114 | 1290                               | 0.042                            | 0.126 | 1170                               |
| 10 × 16                            | 0.026                            | 0.078 | 1790                               | 0.030                            | 0.090 | 1650                               |
| 10 × 20                            | 0.019                            | 0.057 | 2180                               | 0.023                            | 0.069 | 1890                               |
| 10 × 25                            | 0.018                            | 0.054 | 2470                               | 0.022                            | 0.066 | 2150                               |
| 12.5 × 20                          | 0.018                            | 0.045 | 2600                               | 0.022                            | 0.055 | 2260                               |
| 12.5 × 25                          | 0.015                            | 0.038 | 3190                               | 0.018                            | 0.045 | 2660                               |
| 12.5 × 30                          | 0.013                            | 0.033 | 3630                               | 0.016                            | 0.040 | 3160                               |
| 12.5 × 35                          | 0.012                            | 0.030 | 3750                               | 0.014                            | 0.035 | 3270                               |
| 16 × 20                            | 0.017                            | 0.043 | 3300                               | 0.019                            | 0.048 | 2870                               |
| 16 × 25                            | 0.014                            | 0.035 | 3820                               | 0.016                            | 0.040 | 3320                               |

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### Standard Products

| W.V.<br><br>(V) | Cap<br>(±20%)<br><br>(μF) | Case size        |                    | Specification                                     |                                             |                               | Lead size                 |                      |                                   |     | Part No        | Min. Packaging Qty        |                     |
|-----------------|---------------------------|------------------|--------------------|---------------------------------------------------|---------------------------------------------|-------------------------------|---------------------------|----------------------|-----------------------------------|-----|----------------|---------------------------|---------------------|
|                 |                           | Dia.<br><br>(mm) | Length<br><br>(mm) | Ripple<br>current<br>(100kHz)<br>(+105°C)<br>(mA) | Impedance<br>(100kHz)<br>(+20°C)<br><br>(Ω) | Endur-<br>ance<br><br>(hours) | Lead<br>Dia.<br><br>(m m) | Lead space           |                                   |     |                | Long<br>Lead<br><br>(pcs) | Taping<br><br>(pcs) |
|                 |                           |                  |                    |                                                   |                                             |                               |                           | Straight<br><br>(mm) | Taping<br><br>* B * H<br>(mm)(mm) |     |                |                           |                     |
| 6.3             | 150                       | 5                | 11                 | 280                                               | 0.300                                       | 2000                          | 0.5                       | 2.0                  | 5.0                               | 2.5 | EEUFM0J151 ( ) | 200                       | 2000                |
|                 | 330                       | 6                | 11.2               | 455                                               | 0.130                                       | 2000                          | 0.5                       | 2.5                  | 5.0                               | 2.5 | EEUFM0J331 ( ) | 200                       | 2000                |
|                 | 560                       | 8                | 11.5               | 950                                               | 0.056                                       | 3000                          | 0.6                       | 3.5                  | 5.0                               |     | EEUFM0J561 ( ) | 200                       | 1000                |
|                 | 820                       | 8                | 15                 | 1240                                              | 0.041                                       | 3000                          | 0.6                       | 3.5                  | 5.0                               |     | EEUFM0J821L( ) | 200                       | 1000                |
|                 | 1200                      | 8                | 20                 | 1560                                              | 0.030                                       | 4000                          | 0.6                       | 3.5                  | 5.0                               |     | EEUFM0J122L( ) | 200                       | 1000                |
|                 | 1000                      | 10               | 12.5               | 1290                                              | 0.038                                       | 4000                          | 0.6                       | 5.0                  | 5.0                               |     | EEUFM0J102 ( ) | 200                       | 500                 |
|                 | 1200                      | 10               | 16                 | 1790                                              | 0.026                                       | 4000                          | 0.6                       | 5.0                  | 5.0                               |     | EEUFM0J122 ( ) | 200                       | 500                 |
|                 | 1500                      | 10               | 20                 | 2180                                              | 0.019                                       | 5000                          | 0.6                       | 5.0                  | 5.0                               |     | EEUFM0J152 ( ) | 200                       | 500                 |
|                 | 2200                      | 10               | 25                 | 2470                                              | 0.018                                       | 5000                          | 0.6                       | 5.0                  | 5.0                               |     | EEUFM0J222L( ) | 200                       | 500                 |
|                 | 3300                      | 12.5             | 20                 | 2600                                              | 0.018                                       | 5000                          | 0.6                       | 5.0                  | 5.0                               |     | EEUFM0J332 ( ) | 200                       | 500                 |
|                 | 3900                      | 12.5             | 25                 | 3190                                              | 0.015                                       | 7000                          | 0.6                       | 5.0                  | 5.0                               |     | EEUFM0J392 ( ) | 200                       | 500                 |
|                 | 4700                      | 12.5             | 30                 | 3630                                              | 0.013                                       | 7000                          | 0.8                       | 5.0                  |                                   |     | EEUFM0J472L    | 100                       |                     |
|                 | 5600                      | 12.5             | 35                 | 3750                                              | 0.012                                       | 7000                          | 0.8                       | 5.0                  |                                   |     | EEUFM0J562L    | 100                       |                     |
|                 |                           | 16               | 20                 | 3300                                              | 0.017                                       | 5000                          | 0.8                       | 7.5                  | 7.5                               |     | EEUFM0J562S( ) | 100                       | 250                 |
|                 | 6800                      | 16               | 25                 | 3820                                              | 0.014                                       | 7000                          | 0.8                       | 7.5                  | 7.5                               |     | EEUFM0J682 ( ) | 100                       | 250                 |
| 10              | 100                       | 5                | 11                 | 280                                               | 0.300                                       | 2000                          | 0.5                       | 2.0                  | 5.0                               | 2.5 | EEUFM1A101 ( ) | 200                       | 2000                |
|                 | 220                       | 6                | 11.2               | 455                                               | 0.130                                       | 2000                          | 0.5                       | 2.5                  | 5.0                               | 2.5 | EEUFM1A221 ( ) | 200                       | 2000                |
|                 | 470                       | 8                | 11.5               | 950                                               | 0.056                                       | 3000                          | 0.6                       | 3.5                  | 5.0                               |     | EEUFM1A471 ( ) | 200                       | 1000                |
|                 | 680                       | 8                | 15                 | 1240                                              | 0.041                                       | 3000                          | 0.6                       | 3.5                  | 5.0                               |     | EEUFM1A681L( ) | 200                       | 1000                |
|                 | 1000                      | 8                | 20                 | 1560                                              | 0.030                                       | 4000                          | 0.6                       | 3.5                  | 5.0                               |     | EEUFM1A102L( ) | 200                       | 1000                |
|                 | 680                       | 10               | 12.5               | 1290                                              | 0.038                                       | 4000                          | 0.6                       | 5.0                  | 5.0                               |     | EEUFM1A681 ( ) | 200                       | 500                 |
|                 | 1000                      | 10               | 16                 | 1790                                              | 0.026                                       | 4000                          | 0.6                       | 5.0                  | 5.0                               |     | EEUFM1A102 ( ) | 200                       | 500                 |
|                 | 1200                      | 10               | 20                 | 2180                                              | 0.019                                       | 5000                          | 0.6                       | 5.0                  | 5.0                               |     | EEUFM1A122 ( ) | 200                       | 500                 |
|                 | 1500                      | 10               | 25                 | 2470                                              | 0.018                                       | 5000                          | 0.6                       | 5.0                  | 5.0                               |     | EEUFM1A152L( ) | 200                       | 500                 |
|                 | 2200                      | 12.5             | 20                 | 2600                                              | 0.018                                       | 5000                          | 0.6                       | 5.0                  | 5.0                               |     | EEUFM1A222 ( ) | 200                       | 500                 |
|                 | 3300                      | 12.5             | 25                 | 3190                                              | 0.015                                       | 7000                          | 0.6                       | 5.0                  | 5.0                               |     | EEUFM1A332 ( ) | 200                       | 500                 |
|                 | 3900                      | 12.5             | 30                 | 3630                                              | 0.013                                       | 7000                          | 0.8                       | 5.0                  |                                   |     | EEUFM1A392L    | 100                       |                     |
|                 | 4700                      | 12.5             | 35                 | 3750                                              | 0.012                                       | 7000                          | 0.8                       | 5.0                  |                                   |     | EEUFM1A472L    | 100                       |                     |
|                 | 3900                      | 16               | 20                 | 3300                                              | 0.017                                       | 5000                          | 0.8                       | 7.5                  | 7.5                               |     | EEUFM1A392S( ) | 100                       | 250                 |
|                 | 5600                      | 16               | 25                 | 3820                                              | 0.014                                       | 7000                          | 0.8                       | 7.5                  | 7.5                               |     | EEUFM1A562 ( ) | 100                       | 250                 |
| 16              | 68                        | 5                | 11                 | 280                                               | 0.300                                       | 2000                          | 0.5                       | 2.0                  | 5.0                               | 2.5 | EEUFM1C680 ( ) | 200                       | 2000                |
|                 | 120                       | 6                | 11.2               | 455                                               | 0.130                                       | 2000                          | 0.5                       | 2.5                  | 5.0                               | 2.5 | EEUFM1C121 ( ) | 200                       | 2000                |
|                 | 330                       | 8                | 11.5               | 950                                               | 0.056                                       | 3000                          | 0.6                       | 3.5                  | 5.0                               |     | EEUFM1C331 ( ) | 200                       | 1000                |
|                 | 470                       | 8                | 15                 | 1240                                              | 0.041                                       | 3000                          | 0.6                       | 3.5                  | 5.0                               |     | EEUFM1C471L( ) | 200                       | 1000                |
|                 | 680                       | 8                | 20                 | 1560                                              | 0.030                                       | 4000                          | 0.6                       | 3.5                  | 5.0                               |     | EEUFM1C681L( ) | 200                       | 1000                |
|                 | 470                       | 10               | 12.5               | 1290                                              | 0.038                                       | 4000                          | 0.6                       | 5.0                  | 5.0                               |     | EEUFM1C471 ( ) | 200                       | 500                 |
|                 | 680                       | 10               | 16                 | 1790                                              | 0.026                                       | 4000                          | 0.6                       | 5.0                  | 5.0                               |     | EEUFM1C681 ( ) | 200                       | 500                 |
|                 | 1000                      | 10               | 20                 | 2180                                              | 0.019                                       | 5000                          | 0.6                       | 5.0                  | 5.0                               |     | EEUFM1C102 ( ) | 200                       | 500                 |
|                 | 1200                      | 10               | 25                 | 2470                                              | 0.018                                       | 5000                          | 0.6                       | 5.0                  | 5.0                               |     | EEUFM1C122L( ) | 200                       | 500                 |
|                 | 1500                      | 12.5             | 20                 | 2600                                              | 0.018                                       | 5000                          | 0.6                       | 5.0                  | 5.0                               |     | EEUFM1C152 ( ) | 200                       | 500                 |

When requesting taped product, please put the letter "B" between the "( )". Lead wire pitch B=5mm, 7.5mm.  
The taping dimensions are explained on p.196 of our Catalog. Please use it as a reference guide.

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Design, and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and / or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.  
Mar.2006

■ Standard Products

| W.V.<br><br>(V) | Cap<br>(±20%)<br>(μF) | Case size |        | Specification                                  |                                         |                           | Lead size             |                  |             |             | Part No        | Min.Packaging Qty     |                 |
|-----------------|-----------------------|-----------|--------|------------------------------------------------|-----------------------------------------|---------------------------|-----------------------|------------------|-------------|-------------|----------------|-----------------------|-----------------|
|                 |                       | Dia.      | Length | Ripple current<br>(100kHz)<br>(+105°C)<br>(mA) | Impedance<br>(100kHz)<br>(+20°C)<br>(Ω) | Endur-<br>ance<br>(hours) | Lead<br>Dia.<br>(m m) | Lead space       |             |             |                | Long<br>Lead<br>(pcs) | Taping<br>(pcs) |
|                 |                       |           |        |                                                |                                         |                           |                       | Straight<br>(mm) | * B<br>(mm) | * H<br>(mm) |                |                       |                 |
| 16              | 2200                  | 12.5      | 25     | 3190                                           | 0.015                                   | 7000                      | 0.6                   | 5.0              | 5.0         |             | EEUFM1C222 ( ) | 200                   | 500             |
|                 | 2700                  | 12.5      | 30     | 3630                                           | 0.013                                   | 7000                      | 0.8                   | 5.0              |             |             | EEUFM1C272L    | 100                   |                 |
|                 | 3300                  | 12.5      | 35     | 3750                                           | 0.012                                   | 7000                      | 0.8                   | 5.0              |             |             | EEUFM1C332L    | 100                   |                 |
|                 | 2700                  | 16        | 20     | 3300                                           | 0.017                                   | 5000                      | 0.8                   | 7.5              | 7.5         |             | EEUFM1C272S( ) | 100                   | 250             |
|                 | 3900                  | 16        | 25     | 3820                                           | 0.014                                   | 7000                      | 0.8                   | 7.5              | 7.5         |             | EEUFM1C392 ( ) | 100                   | 250             |
| 25              | 47                    | 5         | 11     | 280                                            | 0.300                                   | 2000                      | 0.5                   | 2.0              | 5.0         | 2.5         | EEUFM1E470 ( ) | 200                   | 2000            |
|                 | 100                   | 6         | 11.2   | 455                                            | 0.130                                   | 2000                      | 0.5                   | 2.5              | 5.0         | 2.5         | EEUFM1E101 ( ) | 200                   | 2000            |
|                 | 220                   | 8         | 11.5   | 950                                            | 0.056                                   | 3000                      | 0.6                   | 3.5              | 5.0         |             | EEUFM1E221 ( ) | 200                   | 1000            |
|                 | 330                   | 8         | 15     | 1240                                           | 0.041                                   | 3000                      | 0.6                   | 3.5              | 5.0         |             | EEUFM1E331L( ) | 200                   | 1000            |
|                 | 470                   | 8         | 20     | 1560                                           | 0.030                                   | 4000                      | 0.6                   | 3.5              | 5.0         |             | EEUFM1E471L( ) | 200                   | 1000            |
|                 | 330                   | 10        | 12.5   | 1290                                           | 0.038                                   | 4000                      | 0.6                   | 5.0              | 5.0         |             | EEUFM1E331 ( ) | 200                   | 500             |
|                 | 470                   | 10        | 16     | 1790                                           | 0.026                                   | 4000                      | 0.6                   | 5.0              | 5.0         |             | EEUFM1E471 ( ) | 200                   | 500             |
|                 | 680                   | 10        | 20     | 2180                                           | 0.019                                   | 5000                      | 0.6                   | 5.0              | 5.0         |             | EEUFM1E681 ( ) | 200                   | 500             |
|                 | 820                   | 10        | 25     | 2470                                           | 0.018                                   | 5000                      | 0.6                   | 5.0              | 5.0         |             | EEUFM1E821L( ) | 200                   | 500             |
|                 | 1000                  | 12.5      | 20     | 2600                                           | 0.018                                   | 5000                      | 0.6                   | 5.0              | 5.0         |             | EEUFM1E102 ( ) | 200                   | 500             |
|                 | 1500                  | 12.5      | 25     | 3190                                           | 0.015                                   | 7000                      | 0.6                   | 5.0              | 5.0         |             | EEUFM1E152 ( ) | 200                   | 500             |
|                 | 1800                  | 12.5      | 30     | 3630                                           | 0.013                                   | 7000                      | 0.8                   | 5.0              |             |             | EEUFM1E182L    | 100                   |                 |
|                 | 2200                  | 12.5      | 35     | 3750                                           | 0.012                                   | 7000                      | 0.8                   | 5.0              |             |             | EEUFM1E222L    | 100                   |                 |
|                 | 1800                  | 16        | 20     | 3300                                           | 0.017                                   | 5000                      | 0.8                   | 7.5              | 7.5         |             | EEUFM1E182S( ) | 100                   | 250             |
|                 | 2700                  | 16        | 25     | 3820                                           | 0.014                                   | 7000                      | 0.8                   | 7.5              | 7.5         |             | EEUFM1E272 ( ) | 100                   | 250             |
| 35              | 33                    | 5         | 11     | 280                                            | 0.300                                   | 2000                      | 0.5                   | 2.0              | 5.0         | 2.5         | EEUFM1V330 ( ) | 200                   | 2000            |
|                 | 68                    | 6         | 11.2   | 455                                            | 0.130                                   | 2000                      | 0.5                   | 2.5              | 5.0         | 2.5         | EEUFM1V680 ( ) | 200                   | 2000            |
|                 | 150                   | 8         | 11.5   | 950                                            | 0.056                                   | 3000                      | 0.6                   | 3.5              | 5.0         |             | EEUFM1V151 ( ) | 200                   | 1000            |
|                 | 220                   | 8         | 15     | 1240                                           | 0.041                                   | 3000                      | 0.6                   | 3.5              | 5.0         |             | EEUFM1V221L( ) | 200                   | 1000            |
|                 | 330                   | 8         | 20     | 1560                                           | 0.030                                   | 4000                      | 0.6                   | 3.5              | 5.0         |             | EEUFM1V331L( ) | 200                   | 1000            |
|                 | 220                   | 10        | 12.5   | 1290                                           | 0.038                                   | 4000                      | 0.6                   | 5.0              | 5.0         |             | EEUFM1V221 ( ) | 200                   | 500             |
|                 | 330                   | 10        | 16     | 1790                                           | 0.026                                   | 4000                      | 0.6                   | 5.0              | 5.0         |             | EEUFM1V331 ( ) | 200                   | 500             |
|                 | 470                   | 10        | 20     | 2180                                           | 0.019                                   | 5000                      | 0.6                   | 5.0              | 5.0         |             | EEUFM1V471 ( ) | 200                   | 500             |
|                 | 560                   | 10        | 25     | 2470                                           | 0.018                                   | 5000                      | 0.6                   | 5.0              | 5.0         |             | EEUFM1V561L( ) | 200                   | 500             |
|                 | 680                   | 12.5      | 20     | 2600                                           | 0.018                                   | 5000                      | 0.6                   | 5.0              | 5.0         |             | EEUFM1V681 ( ) | 200                   | 500             |
|                 | 1000                  | 12.5      | 25     | 3190                                           | 0.015                                   | 7000                      | 0.6                   | 5.0              | 5.0         |             | EEUFM1V102 ( ) | 200                   | 500             |
|                 | 1200                  | 12.5      | 30     | 3630                                           | 0.013                                   | 7000                      | 0.8                   | 5.0              |             |             | EEUFM1V122L    | 100                   |                 |
|                 | 1500                  | 12.5      | 35     | 3750                                           | 0.012                                   | 7000                      | 0.8                   | 5.0              |             |             | EEUFM1V152L    | 100                   |                 |
|                 | 1200                  | 16        | 20     | 3300                                           | 0.017                                   | 5000                      | 0.8                   | 7.5              | 7.5         |             | EEUFM1V122S( ) | 100                   | 250             |
|                 | 1800                  | 16        | 25     | 3820                                           | 0.014                                   | 7000                      | 0.8                   | 7.5              | 7.5         |             | EEUFM1V182 ( ) | 100                   | 250             |
| 50              | 22                    | 5         | 11     | 250                                            | 0.340                                   | 2000                      | 0.5                   | 2.0              | 5.0         | 2.5         | EEUFM1H220 ( ) | 200                   | 2000            |
|                 | 56                    | 6         | 11.2   | 405                                            | 0.140                                   | 2000                      | 0.5                   | 2.5              | 5.0         | 2.5         | EEUFM1H560 ( ) | 200                   | 2000            |
|                 | 100                   | 8         | 11.5   | 870                                            | 0.061                                   | 3000                      | 0.6                   | 3.5              | 5.0         |             | EEUFM1H101 ( ) | 200                   | 1000            |
|                 | 120                   | 8         | 15     | 1140                                           | 0.045                                   | 3000                      | 0.6                   | 3.5              | 5.0         |             | EEUFM1H121L( ) | 200                   | 1000            |
|                 | 180                   | 8         | 20     | 1430                                           | 0.033                                   | 4000                      | 0.6                   | 3.5              | 5.0         |             | EEUFM1H181L( ) | 200                   | 1000            |

When requesting taped product, please put the letter "B" between the "( )". Lead wire pitch B=5mm, 7.5mm.  
The taping dimensions are explained on p.196 of our Catalog. Please use it as a reference guide.

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Design, and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and / or use. Should a safety concern arise regarding this product, please be sure to contact us immediately. Mar.2006

### ■ Standard Products

| W.V.<br><br>(V) | Cap<br>(±20%)<br><br>(μF) | Case size |        | Specification                                     |                                              |                           | Lead size                 |                      |                                   |                | Part No         | Min.Packaging Qty         |                     |
|-----------------|---------------------------|-----------|--------|---------------------------------------------------|----------------------------------------------|---------------------------|---------------------------|----------------------|-----------------------------------|----------------|-----------------|---------------------------|---------------------|
|                 |                           | Dia.      | Length | Ripple<br>current<br>(100kHz)<br>(+105°C)<br>(mA) | Imped-<br>ance<br>(100kHz)<br>(+20°C)<br>(Ω) | Endur-<br>ance<br>(hours) | Lead<br>Dia.<br><br>(m m) | Lead space           |                                   |                |                 | Long<br>Lead<br><br>(pcs) | Taping<br><br>(pcs) |
|                 |                           |           |        |                                                   |                                              |                           |                           | Straight<br><br>(mm) | Taping<br><br>* B * H<br>(mm)(mm) |                |                 |                           |                     |
| 50              | 150                       | 10        | 12.5   | 1170                                              | 0.042                                        | 4000                      | 0.6                       | 5.0                  | 5.0                               |                | EEUFM1H151 ( )  | 200                       | 500                 |
|                 | 220                       | 10        | 16     | 1650                                              | 0.030                                        | 4000                      | 0.6                       | 5.0                  | 5.0                               |                | EEUFM1H221 ( )  | 200                       | 500                 |
|                 | 270                       | 10        | 20     | 1890                                              | 0.023                                        | 5000                      | 0.6                       | 5.0                  | 5.0                               |                | EEUFM1H271 ( )  | 200                       | 500                 |
|                 | 330                       | 10        | 25     | 2150                                              | 0.022                                        | 5000                      | 0.6                       | 5.0                  | 5.0                               |                | EEUFM1H331L ( ) | 200                       | 500                 |
|                 | 470                       | 12.5      | 20     | 2260                                              | 0.022                                        | 5000                      | 0.6                       | 5.0                  | 5.0                               |                | EEUFM1H471 ( )  | 200                       | 500                 |
|                 | 560                       | 12.5      | 25     | 2660                                              | 0.018                                        | 7000                      | 0.6                       | 5.0                  | 5.0                               |                | EEUFM1H561 ( )  | 200                       | 500                 |
|                 | 680                       | 12.5      | 30     | 3160                                              | 0.016                                        | 7000                      | 0.8                       | 5.0                  |                                   |                | EEUFM1H681L     | 100                       |                     |
|                 | 820                       | 12.5      | 35     | 3270                                              | 0.014                                        | 7000                      | 0.8                       | 5.0                  |                                   |                | EEUFM1H821L     | 100                       |                     |
|                 |                           | 16        | 20     | 2870                                              | 0.019                                        | 5000                      | 0.8                       | 7.5                  | 7.5                               |                | EEUFM1H821S( )  | 100                       | 250                 |
| 1000            | 16                        | 25        | 3320   | 0.016                                             | 7000                                         | 0.8                       | 7.5                       | 7.5                  |                                   | EEUFM1H102 ( ) | 100             | 250                       |                     |

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