

## Radial Lead Type

Series : **FM** Type : **A**



### Features

- Low impedance (40 % to 70 % less than FC Series)
- Endurance : 105 °C 2000 h to 7000 h
- RoHS compliant

### Attention

- Not applicable for automotive

### Specifications

|   |  |      |      |      |      |      |      |                        |
|---|--|------|------|------|------|------|------|------------------------|
| Category temperature range                            | -40 °C to +105 °C  |      |      |      |      |      |      |                        |
| Rated voltage range                                   | 6.3 V.DC to 50 V.DC  |      |      |      |      |      |      |                        |
| Capacitance range                                     | 22 µF to 6800 µF   |      |      |      |      |      |      |                        |
| Capacitance tolerance                                 | ±20 % (120 Hz/+20 °C)  |      |      |      |      |      |      |                        |
| Leakage current                                       | I ≤ 0.01 CV (µA) After 2 minutes   |      |      |      |      |      |      |                        |
| Dissipation factor (tan δ)                            | V.DC   | 6.3  | 10   | 16   | 25   | 35   | 50   | (max.) (120 Hz/+20 °C) |
|   | tan δ  | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 |                        |
| Add 0.02 per 1000 µF for products of 1000 µF or more. |  |      |      |      |      |      |      |                        |
| Endurance   | After following life test with DC voltage and +105 °C±2 °C ripple current value applied. (The sum of DC and ripple peak voltage shall not exceed the rated working voltage) when the capacitors are restored to 20 °C, the capacitors shall meet the limits specified below. |      |      |      |      |      |      |                        |
|   | Duration   |      |      |      |      |      |      |                        |
|   | φ5 to φ6.3 : 2000 hours, φ8×11.5 to φ8×15: 3000 hours  |      |      |      |      |      |      |                        |
|   | 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                                    | Within ±25 % of the initial value (6.3 V.DC to 10 V.DC : ±30 %)  |      |      |      |      |      |      |                        |
| tan δ   | ≤ 200 % of the initial limit   |      |      |      |      |      |      |                        |
| DC leakage current                                    | Within the initial limit   |      |      |      |      |      |      |                        |
| Shelf life  | After storage for 1000 hours at +105 °C±2 °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in Endurance. (With voltage treatment)  |      |      |      |      |      |      |                        |

### Frequency correction factor for ripple current

| Rated voltage (V.DC) | Capacitance (µF) | Frequency (Hz) |      |      |      |       |
|----------------------|------------------|----------------|------|------|------|-------|
|                      |                  | 60             | 120  | 1 k  | 10 k | 100 k |
| 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

(Unit : mm)

| φD | 5   | 6.3 | 8   | 10  | 12.5       |          | 16  |
|----|-----|-----|-----|-----|------------|----------|-----|
| L  | —   | —   | —   | —   | 12.5 to 25 | 30 to 40 | —   |
| φd | 0.5 | 0.5 | 0.6 | 0.6 | 0.6        | 0.8      | 0.8 |
| F  | 2.0 | 2.5 | 3.5 | 5.0 | 5.0        |          | 7.5 |

**Case size/ Impedance/ Ripple current**

| Rated voltage<br>(V.DC) | Case size<br>(mm)<br>( $\phi$ D×L) | 6.3 V.DC to 35 V.DC               |        |                                       | 50 V.DC                           |        |                                       |
|-------------------------|------------------------------------|-----------------------------------|--------|---------------------------------------|-----------------------------------|--------|---------------------------------------|
|                         |                                    | Impedance<br>( $\Omega$ /100 kHz) |        | Ripple current<br>(mA r.m.s./100 kHz) | Impedance<br>( $\Omega$ /100 kHz) |        | Ripple current<br>(mA r.m.s./100 kHz) |
|                         |                                    | +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                                  |

## Characteristics list

| Rated voltage (V.DC) | Cap. (±20 %) (μF) | Case size (mm) |      | Specification                                  |                                  |                   | Lead length (mm) |            |           | Part No. | Min. Packaging Qty |              |           |
|----------------------|-------------------|----------------|------|--|----------------------------------|-------------------|------------------|------------|-----------|----------|--------------------|--------------|-----------|
|                      |                   | φD             | L    | Ripple current (100 kHz) (+105 °C) (mA r.m.s.) | Impedance (100 kHz) (+20 °C) (Ω) | Endurance (hours) | Lead dia. φd     | Lead space |           |          | Long lead (pcs)    | Taping (pcs) |           |
|                      |                   |                |      |  |                                  |                   |                  | Straight   | Taping *B |          |                    |              | Taping *H |
| 6.3                  | 150               | 5              | 11   | 280  | 0.300                            | 2000              | 0.5              | 2.0        | 5.0       | 2.5      | EEUFM0J151( )      | 200          | 2000      |
|                      | 330               | 6.3            | 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      |
|                      | 1000              | 10             | 12.5 | 1290   | 0.038                            | 4000              | 0.6              | 5.0        | 5.0       |          | EEUFM0J102( )      | 200          | 500       |
|                      | 1200              | 8              | 20   | 1560   | 0.030                            | 4000              | 0.6              | 3.5        | 5.0       |          | EEUFM0J122L( )     | 200          | 1000      |
|                      |                   | 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               | 6.3            | 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      |
|                      |                   | 10             | 12.5 | 1290   | 0.038                            | 4000              | 0.6              | 5.0        | 5.0       |          | EEUFM1A681( )      | 200          | 500       |
|                      | 1000              | 8              | 20   | 1560   | 0.030                            | 4000              | 0.6              | 3.5        | 5.0       |          | EEUFM1A102L( )     | 200          | 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          |           |
|                      |                   | 16             | 20   | 3300   | 0.017                            | 5000              | 0.8              | 7.5        | 7.5       |          | EEUFM1A392S( )     | 100          | 250       |
|                      | 4700              | 12.5           | 35   | 3750   | 0.012                            | 7000              | 0.8              | 5.0        |           |          | EEUFM1A472L        | 100          |           |
|                      | 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               | 6.3            | 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      |
|                      |                   | 10             | 12.5 | 1290   | 0.038                            | 4000              | 0.6              | 5.0        | 5.0       |          | EEUFM1C471( )      | 200          | 500       |
|                      | 680               | 8              | 20   | 1560   | 0.030                            | 4000              | 0.6              | 3.5        | 5.0       |          | EEUFM1C681L( )     | 200          | 1000      |
|                      |                   | 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       |
|                      | 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          |           |
|                      |                   | 16             | 20   | 3300   | 0.017                            | 5000              | 0.8              | 7.5        | 7.5       |          | EEUFM1C272S( )     | 100          | 250       |
|                      | 3300              | 12.5           | 35   | 3750   | 0.012                            | 7000              | 0.8              | 5.0        |           |          | EEUFM1C332L        | 100          |           |
|                      | 3900              | 16             | 25   | 3820   | 0.014                            | 7000              | 0.8              | 7.5        | 7.5       |          | EEUFM1C392( )      | 100          | 250       |

· When requesting taped product, please put the letter "B" or "H" between the "( )". Lead wire pitch \*B=5 mm, 7.5 mm, H=2.5 mm.

· Please refer to the page of "Taping dimensions".

## Characteristics list

| Rated voltage (V.DC) | Cap. (±20 %) (μF) | Case size (mm) |      | Specification                                  |                                  |                   | Lead length (mm) |            |           |               | Part No.       | Min. Packaging Qty |              |
|----------------------|-------------------|----------------|------|--|----------------------------------|-------------------|------------------|------------|-----------|---------------|----------------|--------------------|--------------|
|                      |                   | φD             | L    | Ripple current (100 kHz) (+105 °C) (mA r.m.s.) | Impedance (100 kHz) (+20 °C) (Ω) | Endurance (hours) | Lead dia. φd     | Lead space |           |               |                | Long lead (pcs)    | Taping (pcs) |
|                      |                   |                |      |  |                                  |                   |                  | Straight   | Taping *B | Taping *H     |                |                    |              |
| 25                   | 47                | 5              | 11   | 280  | 0.300                            | 2000              | 0.5              | 2.0        | 5.0       | 2.5           | EEUFM1E470( )  | 200                | 2000         |
|                      | 100               | 6.3            | 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         |
|                      |                   | 10             | 12.5 | 1290   | 0.038                            | 4000              | 0.6              | 5.0        | 5.0       |               | EEUFM1E331( )  | 200                | 500          |
|                      | 470               | 8              | 20   | 1560   | 0.030                            | 4000              | 0.6              | 3.5        | 5.0       |               | EEUFM1E471L( ) | 200                | 1000         |
|                      |                   | 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                |              |
|                      |                   | 16             | 20   | 3300   | 0.017                            | 5000              | 0.8              | 7.5        | 7.5       |               | EEUFM1E182S( ) | 100                | 250          |
|                      | 2200              | 12.5           | 35   | 3750   | 0.012                            | 7000              | 0.8              | 5.0        |           |               | EEUFM1E222L    | 100                |              |
| 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                | 6.3            | 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         |
|                      |                   | 10             | 12.5 | 1290   | 0.038                            | 4000              | 0.6              | 5.0        | 5.0       |               | EEUFM1V221( )  | 200                | 500          |
|                      | 330               | 8              | 20   | 1560   | 0.030                            | 4000              | 0.6              | 3.5        | 5.0       |               | EEUFM1V331L( ) | 200                | 1000         |
|                      |                   | 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                |              |
|                      |                   | 16             | 20   | 3300   | 0.017                            | 5000              | 0.8              | 7.5        | 7.5       |               | EEUFM1V122S( ) | 100                | 250          |
|                      | 1500              | 12.5           | 35   | 3750   | 0.012                            | 7000              | 0.8              | 5.0        |           |               | EEUFM1V152L    | 100                |              |
| 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                | 6.3            | 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         |
|                      | 150               | 10             | 12.5 | 1170   | 0.042                            | 4000              | 0.6              | 5.0        | 5.0       |               | EEUFM1H151( )  | 200                | 500          |
|                      | 180               | 8              | 20   | 1430   | 0.033                            | 4000              | 0.6              | 3.5        | 5.0       |               | EEUFM1H181L( ) | 200                | 1000         |
|                      | 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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· Please refer to the page of "Taping dimensions".