

## Radial Lead Type

Series : **M** Type : **A**



### Features

- Endurance : 85 °C 2000 h
- Smaller than series SU
- RoHS compliant

### Specifications

|                            |  |  |
|----------------------------|--|--|
| Category temperature range | -40 °C to + 85 °C  | -25 °C to +85 °C                           |
| Rated voltage range        | 6.3 V.DC to 100 V.DC   | 160 V.DC to 450 V.DC                       |
| Capacitance range          | 2.2 μF to 22000 μF   | 2.2 μF to 470 μF                           |
| Capacitance tolerance      | ±20 % (120 Hz/+20 °C)  |  |
| Leakage current            | $I \leq 0.01 CV$ or 3 (μA) After 2 minutes<br>(Whichever is greater)   | $I \leq 0.06 CV + 10$ (μA) After 2 minutes |
| Dissipation factor (tan δ) | Please see the attached characteristics list   |  |
| Endurance                  | After applying rated working voltage for 2000 hours at +85°C±2 °C, when the capacitors are restored to 20 °C, capacitors shall meet the following limits.                                  |  |
|                            | Capacitance change   | Within ±20 % of the initial value          |
|                            | tan δ  | ≤ 150 % of the initial limit               |
|                            | DC leakage current   | Within the initial limit                   |
| Shelf life                 | After storage for 1000 hours at +85 °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

|                   |        |      |      |         |
|-------------------|--------|------|------|---------|
| Frequency (Hz)    | 50, 60 | 120  | 1 k  | 10 k to |
| Correction factor | 0.70   | 1.00 | 1.30 | 1.70    |

### Dimensions



(Unit : mm)

|    |     |     |     |     |      |     |     |
|----|-----|-----|-----|-----|------|-----|-----|
| φD | 5   | 6.3 | 8   | 10  | 12.5 | 16  | 18  |
| 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 | 7.5 |

## Characteristics list

Endurance : 85 °C 2000 h

| Rated voltage (V.DC) | Cap. (±20 %) (μF) | Case size (mm) |      | Specification                                |                         | Lead length (mm) |            |           | Part No.  | Min. Packaging Q'ty  |              |           |
|----------------------|-------------------|----------------|------|--|-------------------------|------------------|------------|-----------|-----------|----------------------|--------------|-----------|
|                      |                   | φD             | L    | Ripple current (120 Hz) (+85 °C) (mA r.m.s.) | tan δ (120 Hz) (+20 °C) | Lead dia. φd     | Lead space |           |           | Straight leads (pcs) | Taping (pcs) |           |
|                      |                   |                |      |  |                         |                  | Straight   | Taping *B |           |                      |              | Taping *i |
| 6.3                  | 220               | 5              | 11   | 240  | 0.28                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA0JM221( )         | 200          | 2000      |
|                      | 470               | 6.3            | 11.2 | 380  | 0.28                    | 0.5              | 2.5        | 5.0       | 2.5       | ECA0JM471( )         | 200          | 2000      |
|                      | 1000              | 8              | 11.5 | 580  | 0.28                    | 0.6              | 3.5        | 5.0       |           | ECA0JM102( )         | 200          | 1000      |
|                      | 2200              | 10             | 16   | 890  | 0.30                    | 0.6              | 5.0        | 5.0       |           | ECA0JM222( )         | 200          | 500       |
|                      | 3300              | 10             | 20   | 1020   | 0.32                    | 0.6              | 5.0        | 5.0       |           | ECA0JM332( )         | 200          | 500       |
|                      | 4700              | 12.5           | 20   | 1170   | 0.34                    | 0.6              | 5.0        | 5.0       |           | ECA0JM472( )         | 200          | 500       |
|                      | 6800              | 12.5           | 25   | 1270   | 0.38                    | 0.6              | 5.0        | 5.0       |           | ECA0JM682( )         | 200          | 500       |
|                      | 10000             | 16             | 25   | 1450   | 0.46                    | 0.8              | 7.5        | 7.5       |           | ECA0JM103( )         | 100          | 250       |
|                      | 15000             | 16             | 31.5 | 1700   | 0.56                    | 0.8              | 7.5        |           |           | ECA0JM153            | 100          |           |
|                      | 22000             | 18             | 35.5 | 1900   | 0.70                    | 0.8              | 7.5        |           |           | ECA0JM223            | 50           |           |
| 10                   | 330               | 6.3            | 11.2 | 330  | 0.24                    | 0.5              | 2.5        | 5.0       | 2.5       | ECA1AM331( )         | 200          | 2000      |
|                      | 1000              | 10             | 12.5 | 630  | 0.24                    | 0.6              | 5.0        | 5.0       |           | ECA1AM102( )         | 200          | 500       |
|                      | 2200              | 10             | 20   | 920  | 0.26                    | 0.6              | 5.0        | 5.0       |           | ECA1AM222( )         | 200          | 500       |
|                      | 3300              | 12.5           | 20   | 1090   | 0.28                    | 0.6              | 5.0        | 5.0       |           | ECA1AM332( )         | 200          | 500       |
|                      | 4700              | 12.5           | 25   | 1200   | 0.30                    | 0.6              | 5.0        | 5.0       |           | ECA1AM472( )         | 200          | 500       |
|                      | 6800              | 16             | 25   | 1400   | 0.34                    | 0.8              | 7.5        | 7.5       |           | ECA1AM682( )         | 100          | 250       |
|                      | 10000             | 16             | 31.5 | 1600   | 0.42                    | 0.8              | 7.5        |           |           | ECA1AM103            | 100          |           |
|                      | 15000             | 18             | 35.5 | 1850   | 0.52                    | 0.8              | 7.5        |           |           | ECA1AM153            | 50           |           |
| 16                   | 10                | 5              | 11   | 30   | 0.20                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA1CM100( )         | 200          | 2000      |
|                      | 22                | 5              | 11   | 75   | 0.20                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA1CM220( )         | 200          | 2000      |
|                      | 33                | 5              | 11   | 110  | 0.20                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA1CM330( )         | 200          | 2000      |
|                      | 47                | 5              | 11   | 130  | 0.20                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA1CM470( )         | 200          | 2000      |
|                      | 100               | 5              | 11   | 180  | 0.20                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA1CM101( )         | 200          | 2000      |
|                      | 220               | 6.3            | 11.2 | 280  | 0.20                    | 0.5              | 2.5        | 5.0       | 2.5       | ECA1CM221( )         | 200          | 2000      |
|                      | 470               | 8              | 11.5 | 440  | 0.20                    | 0.6              | 3.5        | 5.0       |           | ECA1CM471( )         | 200          | 1000      |
|                      | 1000              | 10             | 16   | 680  | 0.20                    | 0.6              | 5.0        | 5.0       |           | ECA1CM102( )         | 200          | 500       |
|                      | 2200              | 12.5           | 20   | 1000   | 0.22                    | 0.6              | 5.0        | 5.0       |           | ECA1CM222( )         | 200          | 500       |
|                      | 3300              | 12.5           | 25   | 1200   | 0.24                    | 0.6              | 5.0        | 5.0       |           | ECA1CM332( )         | 200          | 500       |
|                      | 4700              | 16             | 25   | 1360   | 0.26                    | 0.8              | 7.5        | 7.5       |           | ECA1CM472( )         | 100          | 250       |
|                      | 6800              | 16             | 31.5 | 1600   | 0.30                    | 0.8              | 7.5        |           |           | ECA1CM682            | 100          |           |
| 10000                | 18                | 35.5           | 1800 | 0.38   | 0.8                     | 7.5              |            |           | ECA1CM103 | 50                   |              |           |
| 25                   | 100               | 6.3            | 11.2 | 180  | 0.16                    | 0.5              | 2.5        | 5.0       | 2.5       | ECA1EM101( )         | 200          | 2000      |
|                      | 330               | 8              | 11.5 | 390  | 0.16                    | 0.6              | 3.5        | 5.0       |           | ECA1EM331( )         | 200          | 1000      |
|                      | 470               | 10             | 12.5 | 480  | 0.16                    | 0.6              | 5.0        | 5.0       |           | ECA1EM471( )         | 200          | 500       |
|                      | 1000              | 10             | 20   | 850  | 0.16                    | 0.6              | 5.0        | 5.0       |           | ECA1EM102( )         | 200          | 500       |
|                      | 2200              | 12.5           | 25   | 1200   | 0.18                    | 0.6              | 5.0        | 5.0       |           | ECA1EM222( )         | 200          | 500       |
|                      | 3300              | 16             | 25   | 1300   | 0.20                    | 0.8              | 7.5        | 7.5       |           | ECA1EM332( )         | 100          | 250       |
|                      | 4700              | 16             | 31.5 | 1500   | 0.22                    | 0.8              | 7.5        |           |           | ECA1EM472            | 100          |           |
|                      | 6800              | 18             | 35.5 | 1750   | 0.26                    | 0.8              | 7.5        |           |           | ECA1EM682            | 50           |           |

· When requesting taped product, please put the letter "B" or "i" between the "( )". Lead wire pitch \*B=5 mm, 7.5 mm, i=2.5 mm.  
 · Please refer to the page of "Taping dimensions".

## Characteristics list

Endurance : 85 °C 2000 h

| Rated voltage (V.DC) | Cap. (±20 %) (μF) | Case size (mm) |      | Specification                                |                         | Lead length (mm) |            |           | Part No.  | Min. Packaging Q'ty  |              |           |
|----------------------|-------------------|----------------|------|--|-------------------------|------------------|------------|-----------|-----------|----------------------|--------------|-----------|
|                      |                   | φD             | L    | Ripple current (120 Hz) (+85 °C) (mA r.m.s.) | tan δ (120 Hz) (+20 °C) | Lead dia. φd     | Lead space |           |           | Straight leads (pcs) | Taping (pcs) |           |
|                      |                   |                |      |  |                         |                  | Straight   | Taping *B |           |                      |              | Taping *i |
| 35                   | 47                | 5              | 11   | 130  | 0.14                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA1VM470( )         | 200          | 2000      |
|                      | 100               | 6.3            | 11.2 | 210  | 0.14                    | 0.5              | 2.5        | 5.0       | 2.5       | ECA1VM101( )         | 200          | 2000      |
|                      | 220               | 8              | 11.5 | 350  | 0.14                    | 0.6              | 3.5        | 5.0       |           | ECA1VM221( )         | 200          | 1000      |
|                      | 330               | 10             | 12.5 | 440  | 0.14                    | 0.6              | 5.0        | 5.0       |           | ECA1VM331( )         | 200          | 500       |
|                      | 470               | 10             | 16   | 550  | 0.14                    | 0.6              | 5.0        | 5.0       |           | ECA1VM471( )         | 200          | 500       |
|                      | 1000              | 12.5           | 20   | 900  | 0.14                    | 0.6              | 5.0        | 5.0       |           | ECA1VM102( )         | 200          | 500       |
|                      | 2200              | 16             | 25   | 1250   | 0.16                    | 0.8              | 7.5        | 7.5       |           | ECA1VM222( )         | 100          | 250       |
|                      | 3300              | 16             | 31.5 | 1400   | 0.18                    | 0.8              | 7.5        |           |           | ECA1VM332            | 100          |           |
|                      | 4700              | 18             | 35.5 | 1600   | 0.20                    | 0.8              | 7.5        |           |           | ECA1VM472            | 50           |           |
| 50                   | 2.2               | 5              | 11   | 20   | 0.12                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA1HM2R2( )         | 200          | 2000      |
|                      | 3.3               | 5              | 11   | 35   | 0.12                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA1HM3R3( )         | 200          | 2000      |
|                      | 4.7               | 5              | 11   | 45   | 0.12                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA1HM4R7( )         | 200          | 2000      |
|                      | 10                | 5              | 11   | 65   | 0.12                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA1HM100( )         | 200          | 2000      |
|                      | 22                | 5              | 11   | 100  | 0.12                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA1HM220( )         | 200          | 2000      |
|                      | 33                | 5              | 11   | 110  | 0.12                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA1HM330( )         | 200          | 2000      |
|                      | 47                | 6.3            | 11.2 | 130  | 0.12                    | 0.5              | 2.5        | 5.0       | 2.5       | ECA1HM470( )         | 200          | 2000      |
|                      | 100               | 8              | 11.5 | 250  | 0.12                    | 0.6              | 3.5        | 5.0       |           | ECA1HM101( )         | 200          | 1000      |
|                      | 220               | 10             | 12.5 | 400  | 0.12                    | 0.6              | 5.0        | 5.0       |           | ECA1HM221( )         | 200          | 500       |
|                      | 330               | 10             | 16   | 500  | 0.12                    | 0.6              | 5.0        | 5.0       |           | ECA1HM331( )         | 200          | 500       |
|                      | 470               | 10             | 20   | 650  | 0.12                    | 0.6              | 5.0        | 5.0       |           | ECA1HM471( )         | 200          | 500       |
|                      | 1000              | 12.5           | 25   | 1050   | 0.12                    | 0.6              | 5.0        | 5.0       |           | ECA1HM102( )         | 200          | 500       |
|                      | 2200              | 16             | 31.5 | 1300   | 0.14                    | 0.8              | 7.5        |           |           | ECA1HM222            | 100          |           |
| 3300                 | 18                | 35.5           | 1500 | 0.16   | 0.8                     | 7.5              |            |           | ECA1HM332 | 50                   |              |           |
| 63                   | 10                | 5              | 11   | 70   | 0.11                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA1JM100( )         | 200          | 2000      |
|                      | 22                | 5              | 11   | 105  | 0.11                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA1JM220( )         | 200          | 2000      |
|                      | 33                | 6.3            | 11.2 | 130  | 0.11                    | 0.5              | 2.5        | 5.0       | 2.5       | ECA1JM330( )         | 200          | 2000      |
|                      | 47                | 6.3            | 11.2 | 160  | 0.11                    | 0.5              | 2.5        | 5.0       | 2.5       | ECA1JM470( )         | 200          | 2000      |
|                      | 100               | 8              | 11.5 | 270  | 0.11                    | 0.6              | 3.5        | 5.0       |           | ECA1JM101( )         | 200          | 1000      |
|                      | 220               | 10             | 16   | 450  | 0.11                    | 0.6              | 5.0        | 5.0       |           | ECA1JM221( )         | 200          | 500       |
|                      | 330               | 10             | 20   | 550  | 0.11                    | 0.6              | 5.0        | 5.0       |           | ECA1JM331( )         | 200          | 500       |
|                      | 470               | 12.5           | 20   | 750  | 0.11                    | 0.6              | 5.0        | 5.0       |           | ECA1JM471( )         | 200          | 500       |
|                      | 1000              | 16             | 25   | 1100   | 0.11                    | 0.8              | 7.5        | 7.5       |           | ECA1JM102( )         | 100          | 250       |
|                      | 2200              | 18             | 35.5 | 1400   | 0.13                    | 0.8              | 7.5        |           |           | ECA1JM222            | 50           |           |

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

## Characteristics list

Endurance : 85 °C 2000 h

| Rated voltage (V.DC) | Cap. (±20 %) (μF) | Case size (mm) |      | Specification                                |                         | Lead length (mm) |            |           | Part No.  | Min. Packaging Q'ty  |              |           |
|----------------------|-------------------|----------------|------|--|-------------------------|------------------|------------|-----------|-----------|----------------------|--------------|-----------|
|                      |                   | φD             | L    | Ripple current (120 Hz) (+85 °C) (mA r.m.s.) | tan δ (120 Hz) (+20 °C) | Lead dia. φd     | Lead space |           |           | Straight leads (pcs) | Taping (pcs) |           |
|                      |                   |                |      |  |                         |                  | Straight   | Taping *B |           |                      |              | Taping *i |
| 100                  | 2.2               | 5              | 11   | 30   | 0.10                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA2AM2R2( )         | 200          | 2000      |
|                      | 3.3               | 5              | 11   | 40   | 0.10                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA2AM3R3( )         | 200          | 2000      |
|                      | 4.7               | 5              | 11   | 50   | 0.10                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA2AM4R7( )         | 200          | 2000      |
|                      | 10                | 5              | 11   | 70   | 0.10                    | 0.5              | 2.0        | 5.0       | 2.5       | ECA2AM100( )         | 200          | 2000      |
|                      | 22                | 6.3            | 11.2 | 115  | 0.10                    | 0.5              | 2.5        | 5.0       | 2.5       | ECA2AM220( )         | 200          | 2000      |
|                      | 33                | 8              | 11.5 | 145  | 0.10                    | 0.6              | 3.5        | 5.0       |           | ECA2AM330( )         | 200          | 1000      |
|                      | 47                | 8              | 11.5 | 180  | 0.10                    | 0.6              | 3.5        | 5.0       |           | ECA2AM470( )         | 200          | 1000      |
|                      | 100               | 10             | 16   | 350  | 0.10                    | 0.6              | 5.0        | 5.0       |           | ECA2AM101( )         | 200          | 500       |
|                      | 220               | 12.5           | 20   | 550  | 0.10                    | 0.6              | 5.0        | 5.0       |           | ECA2AM221( )         | 200          | 500       |
|                      | 330               | 12.5           | 25   | 700  | 0.10                    | 0.6              | 5.0        | 5.0       |           | ECA2AM331( )         | 200          | 500       |
|                      | 470               | 16             | 25   | 900  | 0.10                    | 0.8              | 7.5        | 7.5       |           | ECA2AM471( )         | 100          | 250       |
| 1000                 | 18                | 35.5           | 1300 | 0.10   | 0.8                     | 7.5              |            |           | ECA2AM102 | 50                   |              |           |
| 160                  | 2.2               | 6.3            | 11.2 | 53   | 0.16                    | 0.5              | 2.5        | 5.0       | 2.5       | ECA2CM2R2( )         | 200          | 2000      |
|                      | 3.3               | 6.3            | 11.2 | 66   | 0.16                    | 0.5              | 2.5        | 5.0       | 2.5       | ECA2CM3R3( )         | 200          | 2000      |
|                      | 4.7               | 6.3            | 11.2 | 78   | 0.16                    | 0.5              | 2.5        | 5.0       | 2.5       | ECA2CM4R7( )         | 200          | 2000      |
|                      | 10                | 10             | 12.5 | 105  | 0.16                    | 0.6              | 5.0        | 5.0       |           | ECA2CM100( )         | 200          | 500       |
|                      | 22                | 10             | 16   | 175  | 0.16                    | 0.6              | 5.0        | 5.0       |           | ECA2CM220( )         | 200          | 500       |
|                      | 33                | 10             | 20   | 235  | 0.16                    | 0.6              | 5.0        | 5.0       |           | ECA2CM330( )         | 200          | 500       |
|                      | 47                | 12.5           | 20   | 320  | 0.16                    | 0.6              | 5.0        | 5.0       |           | ECA2CM470( )         | 200          | 500       |
|                      | 100               | 12.5           | 25   | 515  | 0.16                    | 0.6              | 5.0        | 5.0       |           | ECA2CM101( )         | 200          | 500       |
|                      | 220               | 16             | 31.5 | 830  | 0.16                    | 0.8              | 7.5        |           |           | ECA2CM221            | 100          |           |
|                      | 330               | 18             | 31.5 | 1090   | 0.16                    | 0.8              | 7.5        |           |           | ECA2CM331            | 50           |           |
|                      | 470               | 18             | 40   | 1440   | 0.16                    | 0.8              | 7.5        |           |           | ECA2CM471            | 50           |           |
| 200                  | 2.2               | 6.3            | 11.2 | 50   | 0.18                    | 0.5              | 2.5        | 5.0       | 2.5       | ECA2DM2R2( )         | 200          | 2000      |
|                      | 3.3               | 6.3            | 11.2 | 62   | 0.18                    | 0.5              | 2.5        | 5.0       | 2.5       | ECA2DM3R3( )         | 200          | 2000      |
|                      | 4.7               | 8              | 11.5 | 86   | 0.18                    | 0.6              | 3.5        | 5.0       |           | ECA2DM4R7( )         | 200          | 1000      |
|                      | 10                | 10             | 12.5 | 100  | 0.18                    | 0.6              | 5.0        | 5.0       |           | ECA2DM100( )         | 200          | 500       |
|                      | 22                | 10             | 20   | 180  | 0.18                    | 0.6              | 5.0        | 5.0       |           | ECA2DM220( )         | 200          | 500       |
|                      | 33                | 10             | 20   | 220  | 0.18                    | 0.6              | 5.0        | 5.0       |           | ECA2DM330( )         | 200          | 500       |
|                      | 47                | 12.5           | 20   | 300  | 0.18                    | 0.6              | 5.0        | 5.0       |           | ECA2DM470( )         | 200          | 500       |
|                      | 100               | 16             | 25   | 475  | 0.18                    | 0.8              | 7.5        | 7.5       |           | ECA2DM101( )         | 100          | 250       |
|                      | 220               | 18             | 31.5 | 835  | 0.18                    | 0.8              | 7.5        |           |           | ECA2DM221            | 50           |           |
|                      | 330               | 18             | 40   | 1140   | 0.18                    | 0.8              | 7.5        |           |           | ECA2DM331            | 50           |           |

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

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

## Characteristics list

Endurance : 85 °C 2000 h

| Rated voltage (V.DC) | Cap. (±20 %) (μF) | Case size (mm) |      | Specification                                |                         | Lead length (mm) |            |           | Part No. | Min. Packaging Q'ty  |              |           |
|----------------------|-------------------|----------------|------|--|-------------------------|------------------|------------|-----------|----------|----------------------|--------------|-----------|
|                      |                   | φD             | L    | Ripple current (120 Hz) (+85 °C) (mA r.m.s.) | tan δ (120 Hz) (+20 °C) | Lead dia. φd     | Lead space |           |          | Straight leads (pcs) | Taping (pcs) |           |
|                      |                   |                |      |  |                         |                  | Straight   | Taping *B |          |                      |              | Taping *i |
| 250                  | 2.2               | 6.3            | 11.2 | 50   | 0.18                    | 0.5              | 2.5        | 5.0       | 2.5      | ECA2EM2R2( )         | 200          | 2000      |
|                      | 3.3               | 8              | 11.5 | 72   | 0.18                    | 0.6              | 3.5        | 5.0       |          | ECA2EM3R3( )         | 200          | 1000      |
|                      | 4.7               | 8              | 11.5 | 86   | 0.18                    | 0.6              | 3.5        | 5.0       |          | ECA2EM4R7( )         | 200          | 1000      |
|                      | 10                | 10             | 16   | 110  | 0.18                    | 0.6              | 5.0        | 5.0       |          | ECA2EM100( )         | 200          | 500       |
|                      | 22                | 10             | 20   | 180  | 0.18                    | 0.6              | 5.0        | 5.0       |          | ECA2EM220( )         | 200          | 500       |
|                      | 33                | 12.5           | 20   | 250  | 0.18                    | 0.6              | 5.0        | 5.0       |          | ECA2EM330( )         | 200          | 500       |
|                      | 47                | 12.5           | 25   | 330  | 0.18                    | 0.6              | 5.0        | 5.0       |          | ECA2EM470( )         | 200          | 500       |
|                      | 100               | 16             | 31.5 | 530  | 0.18                    | 0.8              | 7.5        |           |          | ECA2EM101            | 100          |           |
| 350                  | 2.2               | 8              | 11.5 | 55   | 0.20                    | 0.6              | 3.5        | 5.0       |          | ECA2VM2R2( )         | 200          | 1000      |
|                      | 3.3               | 8              | 11.5 | 60   | 0.20                    | 0.6              | 3.5        | 5.0       |          | ECA2VM3R3( )         | 200          | 1000      |
|                      | 4.7               | 10             | 12.5 | 65   | 0.20                    | 0.6              | 5.0        | 5.0       |          | ECA2VM4R7( )         | 200          | 500       |
|                      | 10                | 10             | 20   | 115  | 0.20                    | 0.6              | 5.0        | 5.0       |          | ECA2VM100( )         | 200          | 500       |
|                      | 22                | 12.5           | 20   | 195  | 0.20                    | 0.6              | 5.0        | 5.0       |          | ECA2VM220( )         | 200          | 500       |
|                      | 33                | 16             | 25   | 300  | 0.20                    | 0.8              | 7.5        | 7.5       |          | ECA2VM330( )         | 100          | 250       |
|                      | 47                | 16             | 25   | 325  | 0.20                    | 0.8              | 7.5        | 7.5       |          | ECA2VM470( )         | 100          | 250       |
|                      | 100               | 18             | 31.5 | 535  | 0.20                    | 0.8              | 7.5        |           |          | ECA2VM101            | 50           |           |
| 400                  | 2.2               | 8              | 11.5 | 50   | 0.20                    | 0.6              | 3.5        | 5.0       |          | ECA2GM2R2( )         | 200          | 1000      |
|                      | 3.3               | 10             | 12.5 | 54   | 0.20                    | 0.6              | 5.0        | 5.0       |          | ECA2GM3R3( )         | 200          | 500       |
|                      | 4.7               | 10             | 16   | 72   | 0.20                    | 0.6              | 5.0        | 5.0       |          | ECA2GM4R7( )         | 200          | 500       |
|                      | 10                | 10             | 20   | 115  | 0.20                    | 0.6              | 5.0        | 5.0       |          | ECA2GM100( )         | 200          | 500       |
|                      | 22                | 12.5           | 25   | 215  | 0.20                    | 0.6              | 5.0        | 5.0       |          | ECA2GM220( )         | 200          | 500       |
|                      | 33                | 16             | 25   | 275  | 0.20                    | 0.8              | 7.5        | 7.5       |          | ECA2GM330( )         | 100          | 250       |
|                      | 47                | 16             | 31.5 | 350  | 0.20                    | 0.8              | 7.5        |           |          | ECA2GM470            | 100          |           |
|                      | 100               | 18             | 40   | 600  | 0.20                    | 0.8              | 7.5        |           |          | ECA2GM101            | 50           |           |
| 450                  | 2.2               | 10             | 12.5 | 44   | 0.20                    | 0.6              | 5.0        | 5.0       |          | ECA2WM2R2( )         | 200          | 500       |
|                      | 3.3               | 10             | 16   | 60   | 0.20                    | 0.6              | 5.0        | 5.0       |          | ECA2WM3R3( )         | 200          | 500       |
|                      | 4.7               | 10             | 20   | 79   | 0.20                    | 0.6              | 5.0        | 5.0       |          | ECA2WM4R7( )         | 200          | 500       |
|                      | 10                | 12.5           | 20   | 130  | 0.20                    | 0.6              | 5.0        | 5.0       |          | ECA2WM100( )         | 200          | 500       |
|                      | 22                | 16             | 25   | 210  | 0.20                    | 0.8              | 7.5        | 7.5       |          | ECA2WM220( )         | 100          | 250       |
|                      | 33                | 16             | 31.5 | 285  | 0.20                    | 0.8              | 7.5        |           |          | ECA2WM330            | 100          |           |

- When requesting taped product, please put the letter "B" or "i" between the "( )". Lead wire pitch \*B=5 mm, 7.5 mm, i=2.5 mm.
- Please refer to the page of "Taping dimensions".