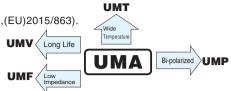


5mmL, Standard, For General Purposes



•Standard series with 5mm height.

• Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

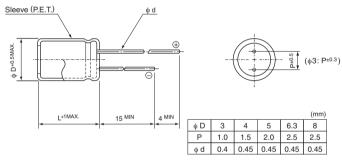




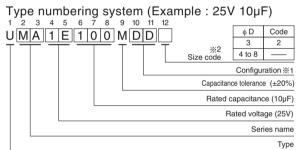
#### ■Specifications

| - Specifications                 |                                                                                                                                                                                                                                     |                | V       |            |          |                                                                                                                              |          |            |          |      |                  |              |                  |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------|------------|----------|------------------------------------------------------------------------------------------------------------------------------|----------|------------|----------|------|------------------|--------------|------------------|
| Item                             | Performance Characteristics                                                                                                                                                                                                         |                |         |            |          |                                                                                                                              |          |            |          |      |                  |              |                  |
| Category Temperature Range       | ge -40 to +85°C<br>4 to 50V                                                                                                                                                                                                         |                |         |            |          |                                                                                                                              |          |            |          |      |                  |              |                  |
| Rated Voltage Range              |                                                                                                                                                                                                                                     |                |         |            |          |                                                                                                                              |          |            |          |      |                  |              |                  |
| Rated Capacitance Range          | Range 1 to 470μF                                                                                                                                                                                                                    |                |         |            |          |                                                                                                                              |          |            |          |      |                  |              |                  |
| Rated Capacitance Tolerance      | ±20% at 120Hz, 2                                                                                                                                                                                                                    | 20°C           |         |            |          |                                                                                                                              |          |            |          |      |                  |              |                  |
| Leakage Current                  | After 2 minutes' a                                                                                                                                                                                                                  | pplication     | of rate | d voltage  | at 20°C, | leakage c                                                                                                                    | urrent i | s not m    | ore than | 0.01 | CV or 3          | (μA), whiche | ever is greater. |
|                                  | Measurement frequency : 120Hz at 20°C                                                                                                                                                                                               |                |         |            |          |                                                                                                                              |          |            |          |      |                  |              |                  |
| Tangent of loss angle (tan δ)    | Rated voltage (V)                                                                                                                                                                                                                   | 4              | 6       | .3         | 10       | 16                                                                                                                           | 25       | 5          | 35       |      | 50               | Figures in ( | ) are for        |
|                                  | tan δ (MAX.)                                                                                                                                                                                                                        | 0.35           | 0.24    | (0.30) 0.2 | 0 (0.24) | 0.16 (0.20)                                                                                                                  | 0.14 (   | 0.18) 0.   | 12 (0.16 | 0.1  | 0 (0.13)         | UMR.         |                  |
|                                  | Measurement frequency : 120Hz                                                                                                                                                                                                       |                |         |            |          |                                                                                                                              |          |            |          |      |                  |              |                  |
| Chalailin and Laur Taura and and | Rated vo                                                                                                                                                                                                                            | Itage (V)      |         | 4          | 6.3      | 10                                                                                                                           | 16       | 25         | 5 3      | 35   | 50               |              |                  |
| Stability at Low Temperature     | Impedance ratio                                                                                                                                                                                                                     | Z-25°C / Z     | Z+20°C  | 7          | 4        | 3                                                                                                                            | 2        | 2          |          | 2    | 2                |              |                  |
|                                  | (MAX.)                                                                                                                                                                                                                              | Z-40°C / Z     | Z+20°C  | 15         | 8        | 6                                                                                                                            | 4        | 4          |          | 3    | 3                |              |                  |
|                                  | The specifications listed at right shall be met                                                                                                                                                                                     |                |         |            |          |                                                                                                                              |          |            |          |      | -t - Mith: OFO/) |              |                  |
| Faduras                          | when the capacito                                                                                                                                                                                                                   |                |         |            | -        | Within ±20% of the initial capacitance value (UMR & φ 3 product : Within ±25%) 200% or less than the initial specified value |          |            |          |      |                  |              |                  |
| Endurance                        | the rated voltage i                                                                                                                                                                                                                 |                |         |            |          | Less than or equal to the initial specified value                                                                            |          |            |          |      |                  |              |                  |
|                                  | 85°C. Leakage current Less than or equal to the initial specified value                                                                                                                                                             |                |         |            |          |                                                                                                                              |          |            |          |      |                  |              |                  |
| Shelf Life                       | After storing the capacitors under no load at 85°C for 1000 hours and then performing voltage treatment based on JIS C 510 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above. |                |         |            |          |                                                                                                                              |          | S C 5101-4 |          |      |                  |              |                  |
| Marking                          | Printed with white co                                                                                                                                                                                                               | olor letter on | black s | leeve.     |          |                                                                                                                              |          |            |          |      |                  |              |                  |
|                                  |                                                                                                                                                                                                                                     |                |         |            |          |                                                                                                                              |          |            |          |      |                  |              |                  |

## ■Radial Lead Type



<sup>•</sup> Please refer to page 20 about the end seal configuration.



★1 Configuration

| φD     | Pb-free leadwire<br>Pb-free PET sleeve |  |  |  |  |
|--------|----------------------------------------|--|--|--|--|
| 3      | CD                                     |  |  |  |  |
| 4 to 8 | DD                                     |  |  |  |  |

#### ■ Dimensions

| V         4           Cap.(μF)         Code         0G |     | 6.3   |        | 10      |         | 16      |         | 25      |         | 35    |         | 50    |         |           |          |
|--------------------------------------------------------|-----|-------|--------|---------|---------|---------|---------|---------|---------|-------|---------|-------|---------|-----------|----------|
|                                                        |     | 0G    |        | 0J      |         | 1A      |         | 1C      |         | 1E    |         | 1V    |         | 1H        |          |
| 1                                                      | 010 |       |        |         |         |         |         |         |         |       | ļ       |       |         | 4×5(3×5)  | 8.4(8.0) |
| 2.2                                                    | 2R2 |       | i      |         | i       |         | i       |         | i       |       | i       | 3×5   | 8.4     | • 4×5     | 13(10)   |
| 3.3                                                    | 3R3 |       | l<br>I |         | i<br>i  |         | i<br>i  |         | I<br>I  | 3×5   | 10      | • 4×5 | 15(10)  | 4×5       | 17       |
| 4.7                                                    | 4R7 |       |        |         |         |         | !       | 3×5     | 10      | • 4×5 | 16(12)  | 4×5   | 18      | 5×5       | 20       |
| 10                                                     | 100 |       |        | 3×5     | 15      |         | i       | • 4×5   | 23(18)  | 5×5   | 27      | 5×5   | 29      | 6.3×5     | 33       |
| 22                                                     | 220 | 3×5   | 19     | • 4×5   | 28(21)  | 5×5     | 33      | 5×5     | 37      | 6.3×5 | 42      | 6.3×5 | 46      | □ 8×5     | 52(48)   |
| 33                                                     | 330 | 4×5   | 28     | 5×5     | 37      | 5×5     | 41      | ∘ 6.3×5 | 49 (43) | 6.3×5 | 52      | □ 8×5 | 62 (52) | 8×5       | 71       |
| 47                                                     | 470 | 4×5   | 33     | 5×5     | 45      | ∘ 6.3×5 | 52(43)  | 6.3×5   | 58      | □ 8×5 | 70 (62) | 8×5   | 80      |           |          |
| 100                                                    | 101 | 5×5   | 56     | ∘ 6.3×5 | 70 (68) | □ 8×5   | 80 (76) | □ 8×5   | 92 (86) | 8×5   | 110     |       | i       |           |          |
| 220                                                    | 221 | 6.3×5 | 96     | □ 8×5   | 110(90) | 8×5     | 135     |         | l<br>I  |       | I<br>I  |       | 1       |           | l<br>I   |
| 330                                                    | 331 | 8×5   | 145    | 8×5     | 170     |         |         |         |         |       |         |       |         | Case size | Rated    |
| 470                                                    | 471 | 8×5   | 185    |         |         |         | i       |         | İ       |       |         |       | !       | φD×L (mm) | ripple   |

Size  $\phi 3 \times 5$  is available for capacitors marked. " $\bullet$ "/ Size  $\phi 5 \times 5$  is available for capacitors marked. " $\circ$ " Size ∮6.3 x 5 is available for capacitors marked. "□" In such a case, MR will be put at 2nd and 3rd digit of type numbering system. Rated ripple current (mArms) at 85°C 120Hz ( ) =  $\phi$ 3 units and UMR.

### Frequency coefficient of rated ripple current

| Frequency   | 50 Hz | 120 Hz | 300 Hz | 1 kHz | 10 kHz or more |
|-------------|-------|--------|--------|-------|----------------|
| Coefficient | 0.70  | 1.00   | 1.17   | 1.36  | 1.50           |

Please refer to page 20, 21, 22 about the formed or taped product spec. Please refer to page 4 for the minimum order quantity.

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EPA-201ELL151MM25S NCD681K10KVY5PF NRLF103M25V35X20F KM4700/16 KME50VB100M-8X11.5 SG220M1CSA-0407

ES5107M016AE1DA ESMG160ETD102MJ16S ESX472M16B MAL211929479E3 40D506F050DF5A 36DA273F050BB2A

KME25VB100M-6.3X11 052687X EKMA500ELL4R7ME07D NRE-S560M16V6.3X7TBSTF ERZA630VHN182UP54N

MAL214099813E3 MAL211990518E3 MAL204281229E3 NEV680M35EF 686KXM050M ERS1VM222L30OT EGW2GM150W16OT

EGS2GM6R8G12OC EHS2GM220W20OT ERF1VM222L30OT ERF1KM151G20OT RGA221M1HBK-1016G NXH 35V1800 16x20

EWH2DM471M40OT LKFB41E470MF LKMJ3551H332MF LKMJ2002E151MF LKMJ2502G820MF LKML3502A331MF

LKMB0901J180MF LKMB0901J2R2MF