

## FEATURES

- Further miniaturization of the conventional type.
- Long life (1000 hours @ 85°C).
- Available both in resin and rubber seals.
- Solvent resistant.

## PART NUMBERING

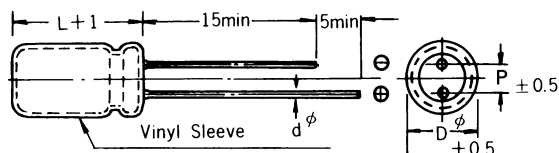
| Part Number Example: 723-050/100M5X11F |   |                  |   |                        |                |      |                |
|--|---|------------------|---|------------------------|----------------|------|----------------|
| 723                                    | - | 050              | / | 100                    | M              | 5X11 | F              |
| Type                                   |   | Rated DC Voltage |   | Capacitance Code (μF)* | Tolerance Code | Size | RoHs Compliant |

\* Capacitance Code: First two digits represent significant figures, third digit represents multiplier (number of zeros).

## SPECIFICATIONS

| Performance Characteristics               |  |  |    |    |    |    |
|---|--|--|----|----|----|----|
| Operating Temperature Range               | -40°C ~ +85°C.   |  |    |    |    |    |
| Temperature Characteristics (120Hz)       | Impedance Ratio  |  |    |    |    |    |
|   | Rated Voltage (WVDC)   | 10                                       | 16 | 25 | 35 | 50 |
|   | Z (-25°C) / Z (+20°C)  | 3  | 2  | 2  | 2  | 2  |
|   | Z (-40°C) / Z (+20°C)  | 6  | 6  | 4  | 3  | 3  |
| Voltage Range                             | 10VDC ~ 63VDC.   |  |    |    |    |    |
| Capacitance Range                         | 0.1μF ~ 1000μF.  |  |    |    |    |    |
| Capacitance Tolerance (20°C, 120Hz)       | ±20%.  |  |    |    |    |    |
| Maximum Dissipation Factor (20°C, 120Hz)  | Rated Voltage (WVDC)   | 10                                       | 16 | 25 | 35 | 50 |
|   | DF %   | 20                                       | 16 | 14 | 12 | 10 |
| Maximum Leakage Current (after 2 minutes) | 0.002CV or 4.0μA, whichever is greater.  |  |    |    |    |    |
| Applicable Standards                      | Characteristics of JIS C-5141.   |  |    |    |    |    |
| Load Life Test (85°C)                     | After 2000 hours' application of rated voltage, capacitors meet the characteristics requirements mentioned below.  |  |    |    |    |    |
|   | Capacitance Change   | Within ±20% of initial value.            |    |    |    |    |
|   | DF   | 200% or less of initial specified value. |    |    |    |    |
| Shelf Life (85°C)                         | Leakage Current  | Initial specified value or less.         |    |    |    |    |
|   | After leaving capacitors under no load for 1000 hours and applying voltage according to JIS C- 5102 4-3, they meet the specified value for load life characteristics listed above. |  |    |    |    |    |

## DIMENSIONS



## DIMENSIONS (UNIT: mm)

| D  | 5   | 6.3 | 8   | 10-13 |
|----|-----|-----|-----|-------|
| P  | 2.0 | 2.5 | 3.5 | 5.0   |
| d∅ | 0.5 |     | 0.6 |       |

CASE SIZE OF STANDARD PRODUCTS (DXL (mm))

| Cap. (µF) | WVDC     |           |           |           |           |          |
|-----------|----------|-----------|-----------|-----------|-----------|----------|
|           | 10       | 16        | 25        | 35        | 50        | 63       |
| 0.10      |          |           |           |           | 5 x 11    | 5 x 11   |
| 0.22      |          |           |           |           | 5 x 11    | 5 x 11   |
| 0.33      |          |           |           |           | 5 x 11    | 5 x 11   |
| 0.47      |          |           |           |           | 5 x 11    | 5 x 11   |
| 1.0       |          |           |           |           | 5 x 11    | 5 x 11   |
| 2.2       |          |           |           |           | 5 x 11    | 5 x 11   |
| 3.3       |          |           |           |           | 5 x 11    | 5 x 11   |
| 4.7       |          |           |           |           | 5 x 11    | 5 x 11   |
| 10        |          |           | 5 x 11    | 5 x 11    | 5 x 11    | 6.3 x 11 |
| 22        |          | 5 x 11    | 5 x 11    | 5 x 11    | 6.3 x 11  | 6.3 x 11 |
| 33        | 5 x 11   | 5 x 11    | 5 x 11    | 5 x 11    | 6.3 x 11  | 8 x 11.5 |
| 47        | 5 x 11   | 6.3 x 11  | 6.3 x 11  | 6.3 x 11  | 6.3 x 11  | 8 x 11.5 |
| 100       | 5 x 11   | 6.3 x 11  | 6.3 x 11  | 8 x 11.5  | 10 x 12.5 | 10 x 20  |
| 220       | 6.3 x 11 | 8 x 11.5  | 10 x 12.5 | 10 x 12.5 | 10 x 20   | 13 x 20  |
| 330       | 8 x 11.5 | 8 x 11.5  | 10 x 12.5 | 10 x 20   | 13 x 20   | 13 x 25  |
| 470       | 8 x 11.5 | 10 x 12.5 | 10 x 20   | 13 x 20   | 13 x 25   |          |
| 1000      | 10 x 16  | 10 x 20   | 13 x 20   | 13 x 25   |           |          |

For capacitance values or sizes not listed above, consult Factory or Area Representative.

MAXIMUM RIPPLE ((mA) 85°C, 120Hz)

| Cap. (µF) | WVDC |     |     |      |      |      |
|-----------|------|-----|-----|------|------|------|
|           | 10   | 16  | 25  | 35   | 50   | 63   |
| 0.10      |      |     |     |      | 8.8  | 8.8  |
| 0.22      |      |     |     |      | 8.8  | 8.8  |
| 0.33      |      |     |     |      | 8.8  | 8.8  |
| 0.47      |      |     |     |      | 8.8  | 8.8  |
| 1.0       |      |     |     |      | 13.2 | 13.2 |
| 2.2       |      |     |     |      | 22   | 22   |
| 3.3       |      |     |     |      | 28   | 31   |
| 4.7       |      |     |     |      | 33   | 38   |
| 10        |      |     | 42  | 46   | 51   | 55   |
| 22        |      | 60  | 63  | 68   | 75   | 91   |
| 33        | 66   | 70  | 76  | 83   | 99   | 110  |
| 47        | 77   | 109 | 116 | 121  | 138  | 149  |
| 100       | 116  | 138 | 149 | 187  | 198  | 248  |
| 220       | 193  | 237 | 253 | 330  | 380  | 440  |
| 330       | 270  | 286 | 369 | 440  | 506  | 594  |
| 470       | 319  | 407 | 484 | 572  | 671  |      |
| 1000      | 605  | 704 | 847 | 1012 |      |      |

For capacitance values or sizes not listed above, consult Factory or Area Representative.