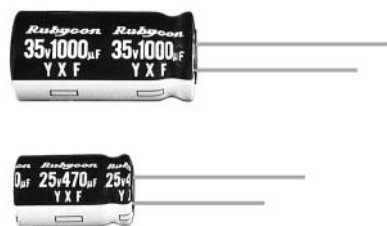


## YXF SERIES

**105°C Long Life. Low impedance.**

## ◆ FEATURES

- Load Life : 105°C 2000~10000hours.
- Low impedance at 100kHz with selected materials.
- RoHS compliance.



## ◆ SPECIFICATIONS

[illegible]

### ◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient  
(6.3wv~100wv)

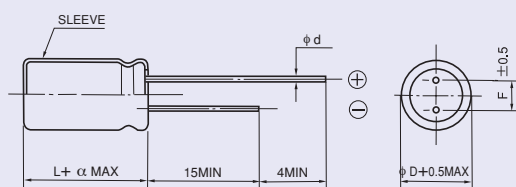
| Frequency (Hz) |               | 120  | 1k   | 10k  | 100k ≤ |
|----------------|---------------|------|------|------|--------|
| Coefficient    | 0.47~10 μF    | 0.42 | 0.60 | 0.80 | 1.00   |
|                | 22~33 μF      | 0.55 | 0.75 | 0.90 | 1.00   |
|                | 47~330 μF     | 0.70 | 0.85 | 0.95 | 1.00   |
|                | 470~1000 μF   | 0.75 | 0.90 | 0.98 | 1.00   |
|                | 2200~15000 μF | 0.80 | 0.95 | 1.00 | 1.00   |

(160wv~250wv)

|                |        |      |      |      |             |
|----------------|--------|------|------|------|-------------|
| Frequency (Hz) | 60(50) | 120  | 1k   | 10k  | 100k $\leq$ |
| Coefficient    | 0.40   | 0.50 | 0.75 | 0.90 | 1.00        |

## ◆ DIMENSIONS

(mm)



|          |                                                           |     |     |     |      |     |    |
|----------|-----------------------------------------------------------|-----|-----|-----|------|-----|----|
| $\phi D$ | 5                                                         | 6.3 | 8   | 10  | 12.5 | 16  | 18 |
| $\phi d$ | 0.5                                                       |     | 0.6 |     |      | 0.8 |    |
| F        | 2.0                                                       | 2.5 | 3.5 | 5.0 |      | 7.5 |    |
| $\alpha$ | $L \leq 16 : \alpha = 1.5 \quad L \geq 20 : \alpha = 2.0$ |     |     |     |      |     |    |

◆PART NUMBER

|                                                                                     |            |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |
|-------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|
|  | <b>YXF</b> |  |  |  |  | <b>DxL</b> |
| Rated Voltage                                                                       | Series     | Rated Capacitance                                                                   | Capacitance Tolerance                                                               | Option                                                                              | Lead Forming                                                                        | Case Size  |

**◆STANDARD SIZE**

| Rated Voltage<br>(V·DC) | Rated capacitance (μF) | Size<br>φ D×L(mm) | Rated ripple current<br>(mA r.m.s./105°C, 100kHz) | Impedance(Ω MAX) |               |
|-------------------------|------------------------|-------------------|---------------------------------------------------|------------------|---------------|
|                         |                        |                   |                                                   | 20°C, 100kHz     | -10°C, 100kHz |
| 6.3<br>(0J)             | 100                    | 5×11              | 150                                               | 0.90             | 3.6           |
|                         | 220                    | 6.3×11            | 250                                               | 0.40             | 1.6           |
|                         | 330                    | 6.3×11            | 250                                               | 0.40             | 1.6           |
|                         | 470                    | 8×11.5            | 400                                               | 0.25             | 1.0           |
|                         | 1000                   | 10×12.5           | 580                                               | 0.16             | 0.65          |
|                         | 2200                   | 12.5×20           | 1300                                              | 0.062            | 0.21          |
|                         | 3300                   | 12.5×20           | 1300                                              | 0.062            | 0.21          |
|                         | 4700                   | 16×25             | 1850                                              | 0.034            | 0.096         |
|                         | 6800                   | 16×25             | 1850                                              | 0.034            | 0.096         |
|                         | 10000                  | 16×31.5           | 2000                                              | 0.029            | 0.087         |
|                         | 15000                  | 18×35.5           | 2200                                              | 0.025            | 0.058         |
| 10<br>(1A)              | 100                    | 5×11              | 150                                               | 0.90             | 3.6           |
|                         | 220                    | 6.3×11            | 250                                               | 0.40             | 1.6           |
|                         | 330                    | 8×11.5            | 400                                               | 0.25             | 1.0           |
|                         | 470                    | 8×11.5            | 400                                               | 0.25             | 1.0           |
|                         | 1000                   | 10×16             | 770                                               | 0.12             | 0.46          |
|                         | 2200                   | 12.5×20           | 1300                                              | 0.062            | 0.21          |
|                         | 3300                   | 12.5×25           | 1650                                              | 0.048            | 0.16          |
|                         | 4700                   | 16×25             | 1850                                              | 0.034            | 0.096         |
|                         | 6800                   | 16×31.5           | 2000                                              | 0.029            | 0.087         |
|                         | 10000                  | 18×35.5           | 2200                                              | 0.025            | 0.058         |
| 16<br>(1C)              | 47                     | 5×11              | 150                                               | 0.90             | 3.6           |
|                         | 100                    | 6.3×11            | 250                                               | 0.40             | 1.6           |
|                         | 220                    | 8×11.5            | 400                                               | 0.25             | 1.0           |
|                         | 330                    | 8×11.5            | 400                                               | 0.25             | 1.0           |
|                         | 470                    | 10×12.5           | 580                                               | 0.16             | 0.65          |
|                         | 1000                   | 10×20             | 1050                                              | 0.078            | 0.30          |
|                         | 2200                   | 12.5×25           | 1650                                              | 0.048            | 0.16          |
|                         | 3300                   | 16×25             | 1850                                              | 0.034            | 0.096         |
|                         | 4700                   | 16×31.5           | 2000                                              | 0.029            | 0.087         |
|                         | 6800                   | 18×35.5           | 2200                                              | 0.025            | 0.058         |
| 25<br>(1E)              | 33                     | 5×11              | 150                                               | 0.90             | 3.6           |
|                         | 47                     | 5×11              | 150                                               | 0.90             | 3.6           |
|                         | 100                    | 6.3×11            | 250                                               | 0.40             | 1.6           |
|                         | 220                    | 8×11.5            | 400                                               | 0.25             | 1.0           |
|                         | 330                    | 10×12.5           | 580                                               | 0.16             | 0.65          |
|                         | 470                    | 10×16             | 770                                               | 0.12             | 0.46          |
|                         | 1000                   | 12.5×20           | 1300                                              | 0.062            | 0.21          |
|                         | 2200                   | 16×25             | 1850                                              | 0.034            | 0.096         |
|                         | 3300                   | 16×31.5           | 2000                                              | 0.029            | 0.087         |
|                         | 4700                   | 18×35.5           | 2200                                              | 0.025            | 0.058         |
| 35<br>(1V)              | 33                     | 5×11              | 150                                               | 0.90             | 3.6           |
|                         | 47                     | 6.3×11            | 250                                               | 0.40             | 1.6           |
|                         | 100                    | 8×11.5            | 400                                               | 0.25             | 1.0           |
|                         | 220                    | 10×12.5           | 580                                               | 0.16             | 0.65          |
|                         | 330                    | 10×16             | 770                                               | 0.12             | 0.46          |
|                         | 470                    | 10×20             | 1050                                              | 0.078            | 0.30          |
|                         | 1000                   | 12.5×25           | 1650                                              | 0.048            | 0.16          |
|                         | 2200                   | 16×31.5           | 2000                                              | 0.029            | 0.087         |
|                         | 3300                   | 18×35.5           | 2200                                              | 0.025            | 0.058         |

| Rated Voltage<br>(V·DC) | Rated capacitance (μF) | Size<br>φ D×L(mm) | Rated ripple current<br>(mA r.m.s./105°C, 100kHz) | Impedance(Ω MAX) |               |
|-------------------------|------------------------|-------------------|---------------------------------------------------|------------------|---------------|
|                         |                        |                   |                                                   | 20°C, 100kHz     | -10°C, 100kHz |
| 50<br>(1H)              | 0.47                   | 5×11              | 17                                                | 5.5              | 12.0          |
|                         | 1                      | 5×11              | 30                                                | 4.0              | 8.0           |
|                         | 2.2                    | 5×11              | 43                                                | 2.5              | 6.0           |
|                         | 3.3                    | 5×11              | 53                                                | 2.2              | 5.6           |
|                         | 4.7                    | 5×11              | 88                                                | 1.9              | 5.0           |
|                         | 10                     | 5×11              | 100                                               | 1.5              | 4.0           |
|                         | 22                     | 5×11              | 150                                               | 0.90             | 3.6           |
|                         | 33                     | 6.3×11            | 250                                               | 0.40             | 1.6           |
|                         | 47                     | 6.3×11            | 250                                               | 0.40             | 1.6           |
|                         | 100                    | 8×11.5            | 400                                               | 0.25             | 1.0           |
|                         | 220                    | 10×16             | 770                                               | 0.12             | 0.46          |
|                         | 330                    | 10×20             | 1050                                              | 0.078            | 0.30          |
|                         | 470                    | 12.5×20           | 1300                                              | 0.062            | 0.21          |
|                         | 1000                   | 16×25             | 1850                                              | 0.034            | 0.096         |
|                         | 2200                   | 18×35.5           | 2200                                              | 0.025            | 0.058         |
| 63<br>(1J)              | 10                     | 5×11              | 87                                                | 2.3              | 9.3           |
|                         | 22                     | 6.3×11            | 140                                               | 1.3              | 5.2           |
|                         | 33                     | 6.3×11            | 140                                               | 1.2              | 5.0           |
|                         | 47                     | 8×11.5            | 210                                               | 0.63             | 2.8           |
|                         | 100                    | 10×12.5           | 300                                               | 0.43             | 1.8           |
|                         | 220                    | 10×20             | 520                                               | 0.21             | 0.84          |
|                         | 330                    | 12.5×20           | 660                                               | 0.16             | 0.64          |
|                         | 470                    | 12.5×25           | 750                                               | 0.12             | 0.45          |
|                         | 1000                   | 16×31.5           | 1390                                              | 0.054            | 0.20          |
| 100<br>(2A)             | 0.47                   | 5×11              | 15                                                | 6.0              | 17.0          |
|                         | 1                      | 5×11              | 20                                                | 4.5              | 15.0          |
|                         | 2.2                    | 5×11              | 30                                                | 3.0              | 13.0          |
|                         | 3.3                    | 5×11              | 40                                                | 2.7              | 11.0          |
|                         | 4.7                    | 5×11              | 65                                                | 2.5              | 10.0          |
|                         | 10                     | 6.3×11            | 140                                               | 1.2              | 5.0           |
|                         | 22                     | 8×11.5            | 160                                               | 0.63             | 2.8           |
|                         | 33                     | 10×12.5           | 230                                               | 0.43             | 1.8           |
|                         | 47                     | 10×16             | 290                                               | 0.31             | 1.5           |
|                         | 100                    | 12.5×20           | 430                                               | 0.16             | 0.64          |
|                         | 220                    | 16×25             | 900                                               | 0.073            | 0.27          |
|                         | 330                    | 16×25             | 900                                               | 0.073            | 0.27          |

**◆STANDARD SIZE**

| Rated Voltage<br>(V·DC) | Rated capacitance (μF) | Size<br>φ D×L(mm) | Rated ripple current<br>(mA r.m.s./105°C, 100kHz) | Impedance(Ω MAX) |
|-------------------------|------------------------|-------------------|---------------------------------------------------|------------------|
|                         |                        |                   |                                                   | 20°C, 100kHz     |
| 160<br>(2C)             | 22                     | 10×20             | 350                                               | 1.0              |
|                         | 33                     | 12.5×20           | 450                                               | 0.70             |
|                         | 47                     | 12.5×25           | 600                                               | 0.45             |
|                         | 68                     | 12.5×25           | 600                                               | 0.45             |
|                         | 100                    | 16×25             | 950                                               | 0.24             |
|                         | 150                    | 16×31.5           | 1200                                              | 0.17             |
|                         | 220                    | 18×35.5           | 1400                                              | 0.14             |
| 200<br>(2D)             | 22                     | 10×20             | 350                                               | 1.0              |
|                         | 33                     | 12.5×25           | 550                                               | 0.55             |
|                         | 47                     | 12.5×25           | 600                                               | 0.44             |
|                         | 68                     | 16×25             | 950                                               | 0.24             |
|                         | 100                    | 16×31.5           | 1200                                              | 0.17             |
|                         | 150                    | 16×35.5           | 1280                                              | 0.16             |
|                         | 220                    | 18×35.5           | 1400                                              | 0.14             |
| 250<br>(2E)             | 22                     | 10×20             | 300                                               | 1.4              |
|                         | 33                     | 12.5×25           | 450                                               | 0.70             |
|                         | 47                     | 16×25             | 850                                               | 0.31             |
|                         | 68                     | 16×31.5           | 1050                                              | 0.22             |
|                         | 100                    | 18×35.5           | 1200                                              | 0.18             |