# YXF SERIES

## 105℃ Long Life




•Load Life : 105℃ 4000~10000 hours.

RoHS compliance

## ◆SPECIFICATIONS

| Items | Characteristics |
|---|---|
| Category Temperature Range | −40~+105℃ |
| Rated Voltage Range | 6.3~100Vdc |
| Capacitance Tolerance | ±20%(20℃,120Hz) |
| Leakage Current(MAX) | I=0.01CV or 3μA whichever is greater.(After 2 minutes)<br>I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc) |
| Dissipation Factor(MAX) (tanδ) | (20℃,120Hz)<br>When capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF. |
| Endurance | After applying rated voltage with rated ripple current for specified time at 105℃, the capacitors shall meet the following requirements. |
| Low Temperature Stability Impedance Ratio(MAX) | (120Hz) |

Dissipation Factor(MAX) (tanδ)

| Rated Voltage (Vdc) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
|---|---|---|---|---|---|---|---|---|
| tanδ | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 |

Endurance

| | |
|---|---|
| Capacitance Change | Within ±25% of the initial value. |
| Dissipation Factor | Not more than 200% of the specified value. |
| Leakage Current | Not more than the specified value. |

| Case Size | Life Time (hrs) | |
|---|---|---|
| | 6.3~10Vdc | 16~100Vdc |
| φD≦6.3 | 4000 | 5000 |
| φD=8,10 | 6000 | 7000 |
| φD≧12.5 | 8000 | 10000 |

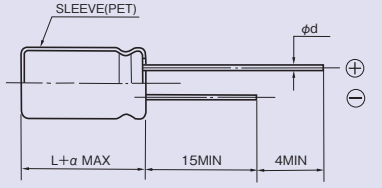
Low Temperature Stability Impedance Ratio(MAX)

| Rated Voltage (Vdc) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
|---|---|---|---|---|---|---|---|---|
| Z(−25℃)/Z(20℃) | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |
| Z(−40℃)/Z(20℃) | 8 | 6 | 4 | 3 | 3 | 3 | 3 | 3 |

## ◆MULTIPLIER FOR RIPPLE CURRENT

| Frequency(Hz) | | 120 | 1k | 10k | 100k≦ |
|---|---|---|---|---|---|
| Coefficient | 1uF | 0.35 | 0.60 | 0.80 | 1.00 |
| | 2.2~10uF | 0.42 | 0.60 | 0.80 | 1.00 |
| | 22~33uF | 0.55 | 0.75 | 0.90 | 1.00 |
| | 47~330uF | 0.70 | 0.85 | 0.95 | 1.00 |
| | 470~1000uF | 0.75 | 0.90 | 0.98 | 1.00 |
| | 2200~15000uF | 0.80 | 0.95 | 1.00 | 1.00 |

## ◆DIMENSIONS (mm)




| φD | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 |
|---|---|---|---|---|---|---|---|
| φd | 0.5 | | 0.6 | | | 0.8 | |
| F | 2.0 | 2.5 | 3.5 | 5.0 | | 7.5 | |
| α | L≦16 : α=1.5 L≧20 : α=2.0 | | | | | | |

## ◆PART NUMBER

| □□□ | YXF | □□□□□ | M | □□□ | □□ | DXL |
|---|---|---|---|---|---|---|
| Rated Voltage | Series | Capacitance | Capacitance Tolerance | Option | Lead Forming | Case Size |

## ◆OPTION

| | Code |
|---|---|
| PET Sleeve | EFC |

## ◆STANDARD SIZE

| Rated Voltage (Vdc) | Capacitance (μF) | Size φD×L(mm) | Rated ripple current (mA r.m.s./105℃, 100kHz) | Impedance (Ω MAX) | |
|---|---|---|---|---|---|
| | | | | 20℃, 100kHz | −10℃, 100kHz |
| 6.3 | 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 | 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 | 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 | 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 | 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 (Vdc) | Capacitance (μF) | Size φD×L(mm) | Rated ripple current (mA r.m.s./105℃, 100kHz) | Impedance (Ω MAX) | |
|---|---|---|---|---|---|
| | | | | 20℃, 100kHz | −10℃, 100kHz |
| 50 | 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 | 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 | 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 |

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## Rubycon:

50ZLJ220M10X16 50ZLJ470M12.5X20 16YXF4700M16X31.5 35YXF2200MEFCGC16X31.5 420BXW100MEFR14.5X45 420BXW68MEFR12.5X45 50TZV220M10X10.5 25PX680MEFC10X12.5 25ZLJ390M8X16 35YXF2200M16X31.5 450BXW47MEFR16X25 16YXF220M8X11.5 6.3ZLH820M8X11.5 100YXF3.3M5X11 10ZLJ560M8X11.5 35ZLK330M10X16 400BXC4R7MEFC10X16 450BXW120MEFR18X40 50YXJ220M10X16 63ZLJ390M12.5X20 16TZV470M8X10.5 25TZV470M10X10.5 25YXM100MEFC6.3X11 35PK1000MEFC10X20 35ZLG150MEFC8X11.5 63ZLH390MEFCG412.5X20 100ZLH220MEFC12.5X25 420BXW33MEFR12.5X25 420BXW56MEFR12.5X35 6.3ZL1000MEFC10X12.5