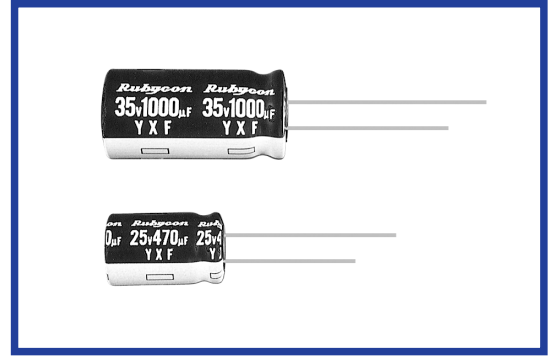


**YXF SERIES**
**105°C Long Life. Low impedance.**
**◆FEATURES**

- Load Life : 105°C 4000~10000hours.
- Low impedance at 100kHz with selected materials.
- RoHS compliance.


**◆SPECIFICATIONS**

Items	Characteristics																															
Category Temperature Range	-40~+105°C																															
Rated Voltage Range	6.3~100V.DC																															
Capacitance Tolerance	±20%(20°C,120Hz)																															
Leakage Current(MAX)	$I=0.01CV$ or $3\mu A$ whichever is greater. (After 2 minutes) $I$ =Leakage Current( $\mu A$ ) $C$ =Rated Capacitance( $\mu F$ ) $V$ =Rated Voltage(V)																															
(tan $\delta$ ) Dissipation Factor(MAX)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> <td>(20°C,120Hz)</td> </tr> <tr> <td>tan<math>\delta</math></td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> <td></td> </tr> </table> <p>When rated capacitance is over 1000<math>\mu F</math>, tan<math>\delta</math> shall be added 0.02 to the listed value with increase of every 1000<math>\mu F</math>.</p>		Rated Voltage (V)	6.3	10	16	25	35	50	63	100	(20°C,120Hz)	tan $\delta$	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08											
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Endurance	<p>After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements.</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±25% of the initial value.</td> <td rowspan="3"> <table border="1"> <tr> <td rowspan="2">Case Size</td> <td colspan="2">Life Time (hrs)</td> </tr> <tr> <td>6.3~10WV</td> <td>16~100WV</td> </tr> <tr> <td><math>\phi D \leq 6.3</math></td> <td>4000</td> <td>5000</td> </tr> <tr> <td><math>\phi D = 8,10</math></td> <td>6000</td> <td>7000</td> </tr> <tr> <td><math>\phi D \geq 12.5</math></td> <td>8000</td> <td>10000</td> </tr> </table> </td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table>		Capacitance Change	Within ±25% of the initial value.	<table border="1"> <tr> <td rowspan="2">Case Size</td> <td colspan="2">Life Time (hrs)</td> </tr> <tr> <td>6.3~10WV</td> <td>16~100WV</td> </tr> <tr> <td><math>\phi D \leq 6.3</math></td> <td>4000</td> <td>5000</td> </tr> <tr> <td><math>\phi D = 8,10</math></td> <td>6000</td> <td>7000</td> </tr> <tr> <td><math>\phi D \geq 12.5</math></td> <td>8000</td> <td>10000</td> </tr> </table>	Case Size	Life Time (hrs)		6.3~10WV	16~100WV	$\phi D \leq 6.3$	4000	5000	$\phi D = 8,10$	6000	7000	$\phi D \geq 12.5$	8000	10000	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.									
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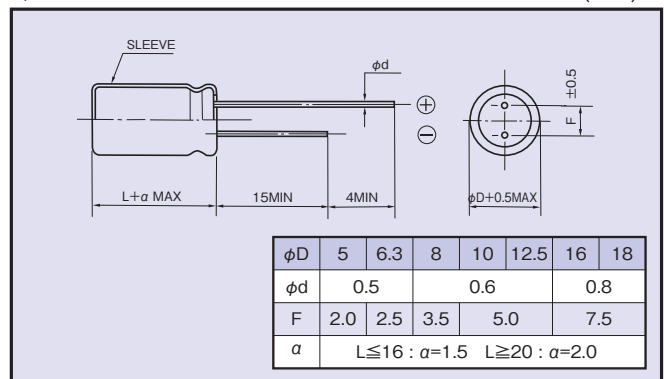
**◆MULTIPLIER FOR RIPPLE CURRENT**

Frequency coefficient

Frequency (Hz)		120	1k	10k	100k $\leq$
Coefficient	0.47~10 $\mu F$	0.42	0.60	0.80	1.00
	22~33 $\mu F$	0.55	0.75	0.90	1.00
	47~330 $\mu F$	0.70	0.85	0.95	1.00
	470~1000 $\mu F$	0.75	0.90	0.98	1.00
	2200~15000 $\mu F$	0.80	0.95	1.00	1.00

**◆DIMENSIONS**

(mm)


**◆PART NUMBER**

□□□	YXF	□□□□□	□	□□□	□□	D×L
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

**◆STANDARD SIZE**

Rated Voltage (V·DC)	Rated capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	(Ω MAX) Impedance	
				20°C, 100kHz	-10°C, 100kHz
6.3 (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 (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 (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 (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 (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	
50 (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 (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 (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

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