

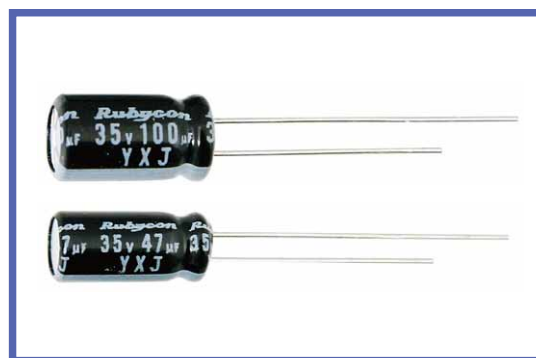
YXJ SERIES

NEW

105°C Miniaturized.Long Life.Low impedance.

◆ FEATURES

- Load Life : 105°C 4000~10000hours.
- RoHS compliance.



◆ SPECIFICATIONS

Items	Characteristics																																																	
Category Temperature Range	-40~+105℃																																																	
Rated Voltage Range	6.3~100V.DC																																																	
Capacitance Tolerance	±20%(20℃,120Hz)																																																	
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater. (After 2 minutes) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)																																																	
(tanδ) Dissipation Factor(MAX)	<table><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></tr><tr><td>tanδ</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></tr></table> (20℃,120Hz) When rated capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.									Rated Voltage (V)	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																							
Rated Voltage (V)	6.3	10	16	25	35	50	63	100																																										
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Endurance	After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td colspan="8">Within ±25% of the initial value.(6.3V:±30%)</td></tr><tr><td>Dissipation Factor</td><td colspan="8">Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td colspan="8">Not more than the specified value.</td></tr></table> <table><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>φD=5</td><td>4000</td><td>5000</td></tr><tr><td>φD=6.3,8</td><td>6000</td><td>7000</td></tr><tr><td>φD≥10</td><td>8000</td><td>10000</td></tr></table>									Capacitance Change	Within ±25% of the initial value.(6.3V:±30%)								Dissipation Factor	Not more than 200% of the specified value.								Leakage Current	Not more than the specified value.								Case Size	Life Time (hrs)		6.3~10WV	16~100WV	φD=5	4000	5000	φD=6.3,8	6000	7000	φD≥10	8000	10000
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Low Temperature Stability Impedance Ratio(MAX)	<table><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></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40℃)/Z(20℃)</td><td>8</td><td>6</td><td>4</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr></table> (120Hz)									Rated Voltage (V)	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														
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Z(-40℃)/Z(20℃)	8	6	4	3	3	3	3	3																																										

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

(6.3WV~50WV)

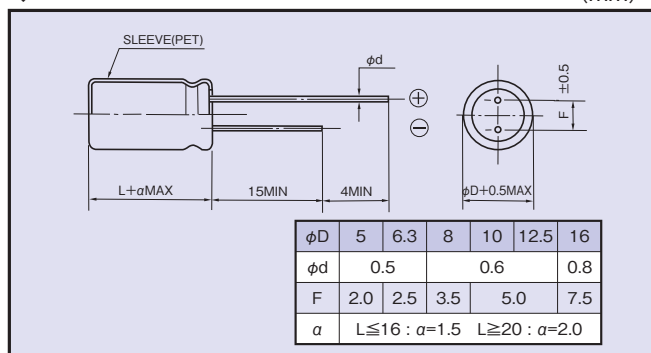
Frequency (Hz)		120	1k	10k	100k≤
Coefficient	0.47~10μF	0.42	0.60	0.80	1.00
	22~33μF	0.55	0.75	0.90	1.00
	47~330μF	0.70	0.85	0.95	1.00
	470~1000μF	0.75	0.90	0.98	1.00
	2200~15000μF	0.80	0.95	1.00	1.00

(63WV~100WV)

Frequency (Hz)	120	1k	10k	100k≤
Coefficient	0.42	0.60	0.80	1.00

◆ DIMENSIONS

(mm)



◆PART NUMBER

	 YXJ					 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	5×11	250	0.40	1.2
	330	6.3×11	340	0.22	0.87
	470	6.3×11	400	0.22	0.87
	1000	8×11.5	640	0.13	0.52
	2200	10×16	1300	0.062	0.25
	3300	10×20	1400	0.046	0.18
	4700	12.5×25	2230	0.032	0.11
	6800	12.5×25	2230	0.032	0.11
	10000	16×25	2930	0.021	0.060
	15000	16×35.5	3610	0.015	0.044
10 (1A)	100	5×11	150	0.90	3.6
	220	5×11	250	0.40	1.2
	330	6.3×11	400	0.22	0.87
	470	6.3×11	400	0.22	0.87
	1000	10×12.5	865	0.080	0.32
	2200	10×20	1400	0.046	0.18
	3300	12.5×20	1900	0.041	0.14
	4700	12.5×25	2230	0.032	0.11
	6800	16×25	2930	0.021	0.060
16 (1C)	47	5×11	250	0.40	1.2
	100	5×11	250	0.40	1.2
	220	6.3×11	400	0.22	0.87
	330	6.3×11	400	0.22	0.87
	470	8×11.5	640	0.13	0.52
	1000	10×16	1210	0.062	0.25
	2200	12.5×20	1900	0.041	0.14
	3300	12.5×25	2230	0.032	0.11
	4700	16×25	2930	0.021	0.060
25 (1E)	6800	16×31.5	3450	0.019	0.056
	33	5×11	250	0.40	1.2
	47	5×11	250	0.40	1.2
	100	5×11	250	0.40	1.2
	220	6.3×11	400	0.22	0.87
	330	8×11.5	640	0.13	0.52
	470	10×12.5	865	0.080	0.32
	1000	10×20	1400	0.046	0.18
	2200	12.5×25	2230	0.032	0.11
35 (1V)	3300	16×25	2930	0.021	0.060
	4700	16×31.5	3450	0.019	0.056
	33	5×11	250	0.40	1.2
	47	5×11	250	0.40	1.2
	100	6.3×11	400	0.22	0.87
	220	8×11.5	640	0.13	0.52
	330	10×12.5	865	0.080	0.32
	470	10×16	1210	0.062	0.25
	1000	12.5×20	1900	0.041	0.14
	2200	16×25	2930	0.021	0.060
	3300	16×31.5	3450	0.019	0.056

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
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	5×11	250	0.70	2.8
	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	16×35.5	3150	0.019	0.057
63 (1J)	10	5×11	173	0.88	3.5
	22	5×11	173	0.88	3.5
	33	6.3×11	278	0.35	1.4
	47	6.3×11	278	0.35	1.4
	100	10×12.5	725	0.15	0.60
	220	10×20	1200	0.078	0.31
	330	12.5×20	1570	0.060	0.19
	470	12.5×25	1990	0.043	0.14
100 (2A)	1000	16×25	2730	0.032	0.096
	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	5×11	163	1.4	5.6
	22	6.3×11	267	0.57	2.3
	33	8×11.5	462	0.36	1.4
	47	8×16	585	0.25	1.0
	100	10×20	1040	0.12	0.52
	220	12.5×25	1620	0.060	0.23
	330	16×25	2210	0.044	0.16