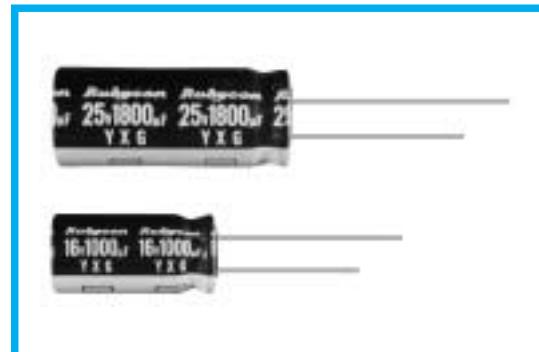


YXG SERIES

105°C High ripple current. Long Life.

◆FEATURES

- Low impedance at 100kHz with selected materials.
- Load Life : 105°C 3000~6000hours.
- 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 μA whichever is greater. (After 2 minutes) I=Leakage Current(μ A) C=Rated Capacitance(μ F) V=Rated Voltage(V)																																													
Dissipation Factor(MAX) (tan δ)	<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> </tr> <tr> <td>tan δ</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°C, 120Hz) When rated capacitance is over 1000 μ F, tan δ shall be added 0.02 to the listed value with increase of every 1000 μ F.									Rated Voltage (V)	6.3	10	16	25	35	50	63	100	tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08																			
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tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08																																						
Endurance	After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td> <td colspan="8">Within ±25% of the initial value.</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 border="1"> <tr> <td>Case Dia</td> <td>Life Time (hrs)</td> </tr> <tr> <td>ϕ D≤6.3</td> <td>3000</td> </tr> <tr> <td>ϕ D=8</td> <td>4000</td> </tr> <tr> <td>ϕ D=10</td> <td>5000</td> </tr> <tr> <td>ϕ D≥12.5</td> <td>6000</td> </tr> </table>									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 Dia	Life Time (hrs)	ϕ D≤6.3	3000	ϕ D=8	4000	ϕ D=10	5000	ϕ D≥12.5	6000
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Low Temperature Stability Impedance Ratio(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> </tr> <tr> <td>Z(-25°C)/Z(20°C)</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°C)/Z(20°C)</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°C)/Z(20°C)	4	3	2	2	2	2	2	2	Z(-40°C)/Z(20°C)	8	6	4	3	3	3	3	3										
Rated Voltage (V)	6.3	10	16	25	35	50	63	100																																						
Z(-25°C)/Z(20°C)	4	3	2	2	2	2	2	2																																						
Z(-40°C)/Z(20°C)	8	6	4	3	3	3	3	3																																						

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

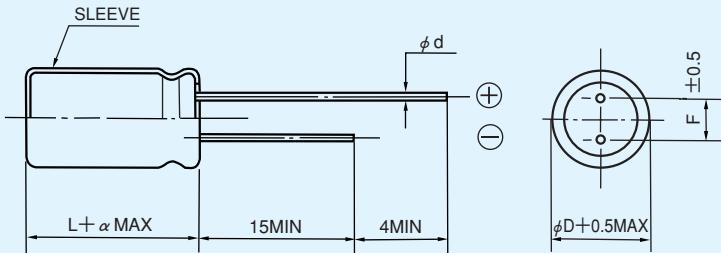
Frequency (Hz)	120	1k	10k	100k≤
Coefficient	6.8~33 μ F	0.42	0.70	0.90
	39~270 μ F	0.50	0.73	0.92
	330~680 μ F	0.55	0.77	0.94
	820~1800 μ F	0.60	0.80	0.96
	2200~18000 μ F	0.70	0.85	0.98

◆PART NUMBER

□□□ YXG □□□□□□ □ □□□ □□ DXL
 Rated Voltage Series Rated Capacitance Capacitance Tolerance Option Lead Forming Case Size

◆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	$L \leq 16 : \alpha = 1.5 \quad L \geq 20 : \alpha = 2.0$						

◆STANDARD SIZE

Rated capacitance (μF)	Size $\phi D \times L$ (mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance (Ω MAX)	
			20°C, 100kHz	-10°C, 100kHz
150	5×11	210	0.58	2.3
330	6.3×11	340	0.22	0.87
680	8×11.5	640	0.13	0.52
820	10×12.5	865	0.080	0.32
1000	8×16	840	0.087	0.35
1200	8×20	1050	0.069	0.27
1200	10×16	1210	0.060	0.24
1500	10×20	1400	0.046	0.18
1800	12.5×16	1450	0.049	0.16
2200	10×23	1650	0.042	0.17
2700	10×28	1910	0.031	0.12
2700	16×16	1940	0.042	0.12
3300	12.5×20	1900	0.035	0.12
3900	12.5×25	2230	0.027	0.089
3900	18×16	2210	0.043	0.11
4700	12.5×30	2650	0.024	0.078
5600	12.5×35	2880	0.020	0.065
5600	16×20	2530	0.027	0.078
6800	12.5×40	3350	0.017	0.056
6800	16×25	2930	0.021	0.060
6800	18×20	2860	0.026	0.067
8200	16×31.5	3450	0.017	0.050
10000	16×35.5	3610	0.015	0.044
10000	18×25	3140	0.019	0.049
12000	16×40	4080	0.013	0.038
12000	18×31.5	4170	0.015	0.040
15000	18×35.5	4220	0.014	0.038
18000	18×40	4280	0.012	0.032



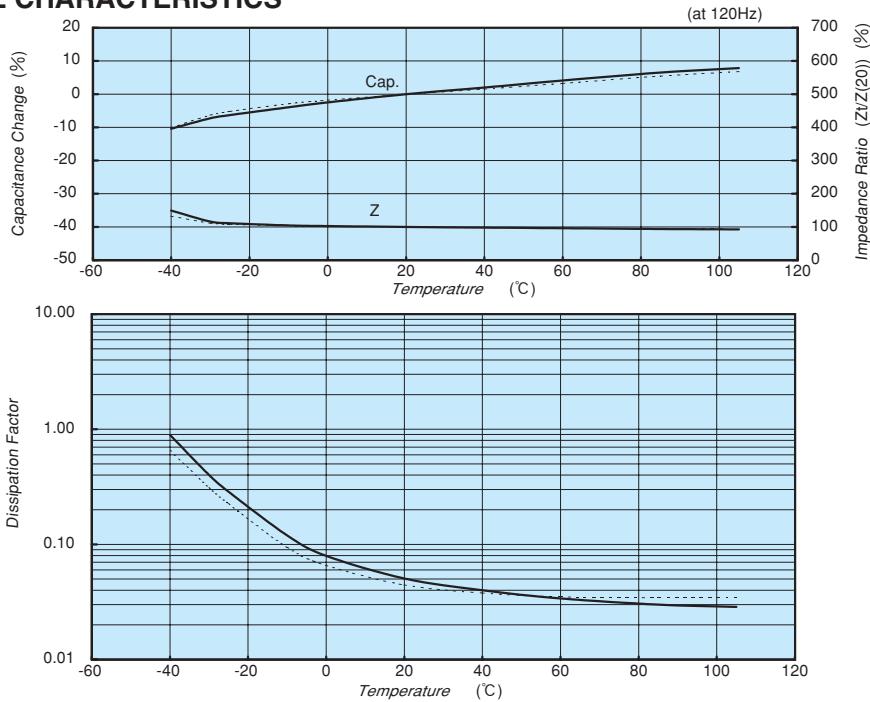
MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

YXG

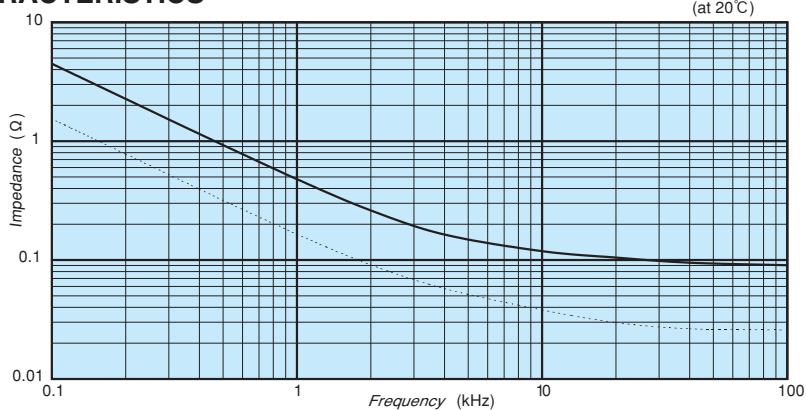
Rated voltage 100V(2A)				
Rated capacitance (μ F)	Size ϕ D×L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance (Ω MAX)	
			20°C, 100kHz	-10°C, 100kHz
6.8	5×11	55	2.3	9.3
15	6.3×11	115	1.2	5.0
27	8×11.5	232	0.63	2.8
39	8×16	300	0.45	2.1
47	10×12.5	288	0.43	1.8
56	8×20	362	0.33	1.6
68	10×16	357	0.31	1.5
82	10×20	466	0.21	0.94
82	12.5×16	466	0.23	1.1
100	10×23	531	0.20	0.84
120	10×28	663	0.15	0.71
120	12.5×20	690	0.16	0.64
150	16×16	795	0.14	0.66
180	12.5×25	784	0.12	0.45
180	18×16	920	0.12	0.50
220	12.5×30	905	0.10	0.42
220	16×20	1040	0.091	0.38
270	12.5×35	1050	0.083	0.35
270	16×25	1250	0.073	0.27
330	12.5×40	1180	0.071	0.30
330	18×20	1240	0.080	0.30
390	16×31.5	1570	0.054	0.20
390	18×25	1490	0.057	0.21
470	16×35.5	1790	0.045	0.17
470	18×31.5	1630	0.047	0.17
560	16×40	2020	0.040	0.15
680	18×35.5	1790	0.040	0.15
820	18×40	2330	0.036	0.13

◆CHARACTERISTIC DATA

· TEMPERATURE CHARACTERISTICS



· FREQUENCY CHARACTERISTICS



· ENDURANCE

