

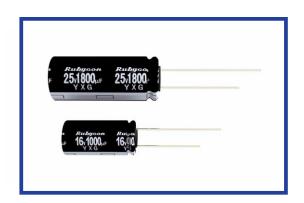
#### RADIAL LEAD ALUMINUM ELECTROLYTIC CAPACITORS

# YXG SERIES

## 105℃ Low Impedance

•Load Life :  $105^{\circ}$ C 3000 $\sim$ 6000 hours.





#### **SPECIFICATIONS**

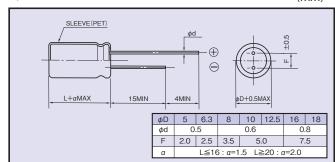
Items	Characteristics				
Category Temperature Range	-40~+105℃				
Rated Voltage Range	6.3~100Vdc				
Capacitance Tolerance	±20%(20°C,120Hz)				
Leakage Current(MAX)	I=0.01CV or $3\mu$ A whichever is greater.(After 2 minutes)  I=Leakage Current( $\mu$ A) C=Capacitance( $\mu$ F) V=Rated Voltage(Vdc)				
Dissipation Factor(MAX) (tanδ)	Rated Voltage   6.3   10   16   25   35   50   63   100   (20°C,120Hz)     tanδ   0.22   0.19   0.16   0.14   0.12   0.10   0.09   0.08     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 $105^{\circ}$ C, the capacitors shall meet the following requirements.  Capacitance Change Within $\pm 25\%$ of the initial value.  Dissipation Factor Not more than 200% of the specified value.  Leakage Current Not more than the specified value.  Not more than the specified value.  Not more than the specified value.				
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage (Vdc) 6.3 10 16 25 35 50 63 100 (120Hz) (120Hz) Z(-25°C)/Z(20°C) 4 3 2 2 2 2 2 2 2 2 2 Z(-40°C)/Z(20°C) 8 6 4 3 3 3 3 3 3				

## **♦**MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)		120	1k	10k	100k≦
Coefficient	6.8∼33µF	0.42	0.70	0.90	1.00
	39~270μF	0.50	0.73	0.92	1.00
	330~680μF	0.55	0.77	0.94	1.00
	820~1800μF	0.60	0.80	0.96	1.00
	2200~18000μF	0.70	0.85	0.98	1.00

## **♦**DIMENSIONS

(mm)

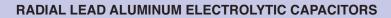


#### **◆PART NUMBER**

	YXG		M			$D \times L$
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

## **♦**OPTION

	Code
PET Sleeve	EFC

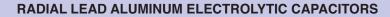




## **♦STANDARD SIZE**

Rated Voltage	Capacitance (µF)	Size	Rated ripple current (mA r.m.s./105°C, 100kHz)		
(Vdc)	(μι )	φυλι(ιιιιι)	(IIIA I.III.5./ 100 G, 100KHZ)	20℃, 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
6.3	3900	12.5×25	2230	0.027	0.089
0.3	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
	100	5×11	210	0.58	2.3
	220	6.3×11	340	0.22	0.87
	470	8×11.5	640	0.13	0.52
	680	8×16	840	0.087	0.35
	680	10×12.5	865	0.080	0.32
	1000	8×20	1050	0.069	0.27
	1000	10×16	1210	0.060	0.24
	1200	10×20	1400	0.046	0.18
	1500	10×23	1650	0.042	0.17
	1500	12.5×16	1450	0.049	0.16
	2200	10×28	1910	0.031	0.12
	2200	12.5×20	1900	0.035	0.12
	2200	16×16	1940	0.042	0.12
10	2700	18×16	2210	0.043	0.11
	3300	12.5×25	2230	0.027	0.089
	3900	12.5×30	2650	0.024	0.078
	3900	16×20	2530	0.027	0.078
	4700	12.5×35	2880	0.020	0.065
	5600	12.5×40	3350	0.017	0.056
	5600	16×25	2930	0.021	0.060
	5600	18×20	2860	0.026	0.067
	6800	16×31.5	3450	0.017	0.050
	6800	18×25	3140	0.019	0.049
	8200	16×35.5	3610	0.015	0.044
	8200	18×31.5	4170	0.015	0.040
	10000	16×40	4080	0.013	0.038
	10000	18×35.5	4220	0.014	0.038
	12000	18×40	4280	0.012	0.032

Rated Voltage	Capacitance (µF)	Size	Rated ripple current (mA r.m.s./105°C, 100kHz) -	Imped (Ω N	dance IAX)
(Vdc)	(μ1)	φυλι(ΠΙΙΠ)		20°C, 100kHz	-10°C, 100kHz
	56	5×11	210	0.58	2.3
	120	6.3×11	340	0.22	0.87
	330	8×11.5	640	0.13	0.52
	470	8×16	840	0.087	0.35
	470	10×12.5	865	0.080	0.32
	680	8×20	1050	0.069	0.27
	680	10×16	1210	0.060	0.24
	1000	10×20	1400	0.046	0.18
	1000	12.5×16	1450	0.049	0.16
	1200	10×23	1650	0.042	0.17
	1500	10×28	1910	0.031	0.12
	1500	12.5×20	1900	0.035	0.12
	1500	16×16	1940	0.042	0.12
16	2200	12.5×25	2230	0.027	0.089
	2200	18×16	2210	0.043	0.11
	2700	12.5×30	2650	0.024	0.078
	2700	16×20	2530	0.027	0.078
	3300	12.5×35	2880	0.020	0.065
	3900 3900	12.5×40 16×25	3350 2930	0.017	0.056
	3900	18×20	2860	0.021	0.060
	4700	16×31.5	3450	0.020	0.050
	4700	18×25	3140	0.017	0.030
	5600	16×35.5	3610	0.015	0.044
	5600	18×31.5	4170	0.015	0.040
	6800	16×40	4080	0.013	0.038
	8200	18×35.5	4220	0.014	0.038
	10000	18×40	4280	0.012	0.032
	47	5×11	210	0.58	2.3
	100	6.3×11	340	0.22	0.87
	220	8×11.5	640	0.13	0.52
	330	8×16	840	0.087	0.35
	330	10×12.5	865	0.080	0.32
	470	8×20	1050	0.069	0.27
	470	10×12.5	1700	0.053	0.16
	470	10×16	1210	0.060	0.24
	680	10×20	1400	0.046	0.18
	680	12.5×16	1450	0.049	0.16
	820	10×23	1650	0.042	0.17
	1000	10×28	1910	0.031	0.12
	1000	12.5×20	1900	0.035	0.12
	1000	16×16	1940	0.042	0.12
25	1200	18×16	2210	0.043	0.11
	1500	12.5×25	2230	0.027	0.089
	1800	12.5×30	2650	0.024	0.078
	1800	16×20	2530	0.027	0.078
	2200	12.5×35	2880	0.020	0.065
	2200	18×20	2860	0.026	0.067
	2700 2700	12.5×40 16×25	3350 2930	0.017	0.056
	3300	16×25	3450	0.021	0.050
	3300	18×25	3140	0.017	0.030
	3900	16×35.5	3610	0.019	0.049
	3900	18×31.5	4170	0.015	0.044
	4700	16×40	4080	0.013	0.040
	4700	18×35.5	4220	0.014	0.038
	5600	18×40	4280	0.014	0.032
	5555	10/110	1200	0.012	5.55L





# **♦STANDARD SIZE**

Rated Voltage	Capacitance (µF)	Size	Rated ripple current (mA r.m.s./105°C, 100kHz)	Imped (Ω N	dance IAX)
(Vdc)	(μ1)	φυνε(IIIIII)	(in Chino, 100 o, 100kliz)	20°C, 100kHz	-10°C, 100kHz
	33	5×11	210	0.58	2.3
	56	6.3×11	340	0.22	0.87
	150	8×11.5	640	0.13	0.52
	220	8×16	840	0.087	0.35
	220	10×12.5	865	0.080	0.32
	270	8×20	1050	0.069	0.27
	330	10×16	1210	0.060	0.24
	470	10×20	1400	0.046	0.18
	470	12.5×16	1450	0.049	0.16
	560	10×23	1650	0.042	0.17
	680	10×28	1910	0.031	0.12
	680	12.5×20	1900	0.035	0.12
	680	16×16	1940	0.042	0.12
25	1000	12.5×25	2230	0.027	0.089
35	1000	18×16	2210	0.043	0.11
	1200	12.5×30	2650	0.024	0.078
	1200	16×20	2530	0.027	0.078
	1500	12.5×35	2880	0.020	0.065
	1800	12.5×40	3350	0.017	0.056
	1800	16×25	2930	0.021	0.060
	1800	18×20	2860	0.026	0.067
	2200	16×31.5	3450	0.017	0.050
	2200	18×25	3140	0.019	0.049
	2700	16×35.5	3610	0.015	0.044
	2700	18×31.5	4170	0.015	0.040
	3300	16×40	4080	0.013	0.038
	3300	18×35.5	4220	0.014	0.038
	3900	18×40	4280	0.012	0.032
	22	5×11	180	0.70	2.8
	56	6.3×11	295	0.30	1.2
	100	8×11.5	555	0.17	0.68
	120	8×16	730	0.12	0.48
	150	10×12.5	760	0.12	0.48
	150	10×12.5	1280	0.073	0.22
	180	8×20	910	0.091	0.36
	220	10×16	1050	0.084	0.34
	270	10×20	1220	0.060	0.24
	270	12.5×16	1260	0.061	0.20
	330	10×23	1440	0.055	0.22
	470	10×28	1690	0.043	0.17
	470	12.5×20	1660	0.045	0.15
E0	470	16×16	1690	0.055	0.17
50	560	12.5×25	1950	0.034	0.11
	560	18×16	1930	0.054	0.15
	680	12.5×30	2310	0.030	0.10
	820 820	12.5×35 16×20	2510	0.025	0.083
	1000	12.5×40	2210 2920	0.034	0.10
	1000	12.5×40 16×25	2555	0.021	0.069
	1000	18×20	2490	0.025	0.075
	1200	16×31.5	3010	0.036	0.097
	1200	18×25	2740	0.022	0.070
	1500	16×35.5	3150	0.020	0.070
	1800	16×35.5	3710	0.019	0.037
	1800	18×31.5	3635	0.016	0.046
	2200	18×35.5	3680	0.021	0.037
	2700	18×40	3800	0.017	0.048
	2100	10/40	3000	0.014	0.000

Rated Voltage	Capacitance (µF)	Size	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impe (Ω N	dance IAX)
(Vdc)	(μ1)	φυνε(ιιιιι)	(111/1/11/10/10/00, 100/01/2)	20°C, 100kHz	−10°C, 100kHz
	15	5×11	55	2.3	9.3
	33	6.3×11	115	1.2	5.0
	56	8×11.5	232	0.63	2.8
	82	8×16	300	0.45	2.1
	82	10×12.5	288	0.43	1.8
	120	8×20	362	0.33	1.6
	120	10×16	357	0.31	1.5
	180	10×20	466	0.21	0.94
	180	12.5×16	466	0.23	1.1
	220	10×23	531	0.20	0.84
	270	10×28	663	0.15	0.71
	270	12.5×20	690	0.16	0.64
	270	16×16	795	0.14	0.66
63	330	12.5×25	784	0.12	0.45
	390	18×16	920	0.12	0.50
	470	12.5×30	905	0.10	0.42
	470	16×20	1040	0.091	0.38
	560	12.5×35	1050	0.083	0.35
	560	16×25	1250	0.073	0.27
	680	12.5×40	1180	0.071	0.30
	680	18×20	1240	0.080	0.30
	820	16×31.5	1570	0.054	0.20
	820	18×25	1490	0.057	0.21
	1000	16×35.5	1790	0.045	0.17
	1000	18×31.5	1630	0.047	0.17
	1200	16×40	2020	0.040	0.15
	1200 1500	18×35.5 18×40	1790 2330	0.040	0.15 0.13
	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
	56	10×12.5	1000	0.17	0.66
	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
100	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
	330 330	12.5×40 18×20	1180 1240	0.071	0.30
	390	16×31.5	1570	0.080	0.30
	390	18×25	1490	0.054	0.20
	470	16×35.5	1790	0.037	0.21
	470	18×31.5	1630	0.047	0.17
	560	16×40	2020	0.040	0.17
	680	18×35.5	1790	0.040	0.15
	820	18×40	2330	0.036	0.13