KOME

KJY Series

Radial Aluminium Electrolytic Capacitors



Features

- 5000 hours at 105°C
- High ripple current
- Suited for ballast and energy-saved lamp application of which high temperature and high reliability are required
- High reliability

TEMPERATURE RANGE	RATED VOLTAGE	CAPACITANCE	ENDURANCE
–40 / –25°C … +105°C	160 – 450 V	1 – 100 μF	105°C 5000 h

Temperature range: –40°C … +105°C for 160 ~ 250 V; –25°C … +105°C for 350 ~ 450 V. Capacitance: range of the characteristics list.

Specifications

Operating temperature range	160 ~ 250 V: –40 ~ +105°C 350 ~ 450 V: –25 ~ +105°C
Rated voltage range	160 ~ 250 V, 350 ~ 450 V
Capacitance range	1 ~ 330 μF
Capacitance tolerance	±20% (20°C, 120 Hz)
Leakage current (μA)	After 2 minutes' application of rated voltage at 20°C, not more than 0.02CV+10(450wv,I≤0.03CV+10) C: nominal capacitance (μF), V: rated voltage (V)
Load life	The following specifications shall be satisfied when the capacitors are restored to 20°C after DC voltage with the rated ripple current has been applied for 5000 hours at 105°C.
	Capacitance change: Within ±20% of the initial value
	D.F. (tan δ): Not more than 200% of the specified value
	Leakage current: Not more than the specified value
Shelf life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposure for 1,000 hours at 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.
	Capacitance change: Within ±20% of the initial value
	D.F. (tan δ): Not more than 200% of the specified value
	Leakage current: Not more than the specified value

Dissipation factor (tan δ) at 20°C, 120 Hz

Rated voltage (V)	160	200	250	350	400	450
tan δ (max.)	0.12	0.12	0.12	0.15	0.15	0.15

Ripple current temperature coefficient

Ambient temperature (°C)	+70	+85	+105
Coefficient	1.70	1.40	1.00

Ripple current frequency correction factor

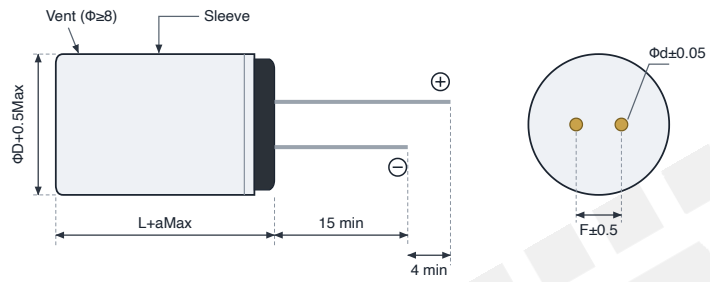
Frequency	120 Hz	1 kHz	10 kHz	100 kHz
160 ~ 250 V	0.55	0.85	0.90	1.00
350 ~ 450 V	0.50	0.80	0.90	1.00

Standard ratings

μF \ V	160	200	250	350	400	450
1	6.3×12				8×12	10×12
2.2	6.3×12		8×12	8×12	8×16	10×16
3.3	8×12	8×12	8×12	10×12	10×16	10×16
4.7	8×12	8×12	8×16	10×16	10×16	10×20
5.6				10×16	10×20	10×20
6.8	8×12	8×16	8×16	10×20	10×20	13×20
8.2				10×20		
10	8×12	10×16	10×16	10×20	13×20	13×20
15	10×16					
22	10×20	10×20	10×20	13×20	16×25	16×25
33		10×20	13×25	16×25	16×31.5	16×31.5
47		13×25	16×25		18×31.5	18×31.5
68			16×25			
100		16×31.5	18×31.5			

Case size ΦD × L (mm). Full ratings in the characteristics list.

Dimensions



ΦD	6.3	8	10	12.5	16	18
Φd	0.5	0.6	0.6	0.6	0.8	0.8
F	2.5	3.5	5.0	5.0	7.5	7.5

ΦD'	ΦD+0.5max.
L'	L+2max.

Unit: mm

How to order

KJY	2	100	M	161	B	0812
Series code	Number of characters for capacitance 47μF = 2, 470μF = 3, 4700μF = 4	Capacitance 47μF = 470, 3300μF = 332, 33000μF = 333	Capacitance tolerance M = ±20%, K = ±10%	Voltage code 6.3V = 060, 10V = 100, 63V = 630, 100V = 101, 160V = 161, 450V = 451	Package B: bulk pack, A: ammo pack	Size code 6.3×12 = 0612

Example: KJY 2 100 M 161 B 0812 = 10 μF, 160 V, ±20%, bulk pack, 8×12.

Characteristics list

UR (V)	Rated Capacitance (μF)	Rated Ripple Current 105°C 100kHz (mA rms)	Size ΦD×L (mm)	Surge Voltage (V)
160	1	40	6.3×12	200
160	2.2	60	6.3×12	200
160	3.3	72	8×12	200
160	4.7	80	8×12	200
160	6.8	96	8×12	200
160	10	206	8×12	200
160	15	250	10×16	200
160	22	400	10×20	200
200	3.3	75	8×12	250
200	4.7	95	8×12	250
200	6.8	102	8×16	250
200	10	210	10×16	250
200	22	400	10×20	250
200	33	450	10×20	250
200	47	610	13×25	250
200	100	800	16×31.5	250
250	2.2	70	8×12	300
250	3.3	75	8×12	300
250	4.7	95	8×16	300
250	6.8	102	8×16	300
250	10	210	10×16	300

UR (V)	Rated Capacitance (μF)	Rated Ripple Current 105°C 100kHz (mA rms)	Size ΦD×L (mm)	Surge Voltage (V)
250	22	400	10×20	300
250	33	500	13×25	300
250	47	620	16×25	300
250	68	720	16×25	300
250	100	880	18×31.5	300
350	2.2	63	8×12	400
350	3.3	80	10×12	400
350	4.7	100	10×16	400
350	5.6	115	10×16	400
350	6.8	142	10×20	400
350	8.2	160	10×20	400
350	10	230	10×20	400
350	22	410	13×20	400
350	33	530	16×25	400
400	1	58	8×12	450
400	2.2	78	8×16	450
400	3.3	90	10×16	450
400	4.7	108	10×16	450
400	5.6	115	10×20	450
400	6.8	155	10×20	450
400	10	230	13×20	450
400	22	450	16×25	450
400	33	500	16×31.5	450
400	47	670	18×31.5	450
450	1	72	10×12	500
450	2.2	86	10×16	500
450	3.3	95	10×16	500
450	4.7	110	10×20	500
450	5.6	115	10×20	500
450	6.8	195	13×20	500
450	10	250	13×20	500
450	22	450	16×25	500
450	33	560	16×31.5	500
450	47	700	18×31.5	500

Capacitance range: the original specifications print 1 ~ 330 μF; the original characteristics list covers 1 ~ 100 μF only — subject to manufacturer confirmation.
Dimensions: the original dimension table lists ΦD 12.5; the original characteristics list prints ΦD 13 (13×20, 13×25) — subject to manufacturer confirmation.
Dimensions: the drawing shows L+a Max; the original table gives L' = L+2max. and no value for a — subject to manufacturer confirmation.
Leakage current: the original does not state how the bracketed limit (450wv,I≤0.03CV+10) applies — subject to manufacturer confirmation.
How to order: codes for 200, 250, 350 and 400 V, and for capacitances below 10 μF, are not shown — subject to manufacturer confirmation.
Custom products are available on request.
Voltage code for 6.3 V is 060 as specified by the manufacturer (2026-11-03).