ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

KG Lug / Snap-in Terminal Type, For Audio Equipment series

For Audio Use

- Disigned for high grade audio equipment, giving priority to high fidelity sound quality.
- The variation expansion of the KG series.
  - TYPE-Ⅰ: The low profile high tone quality grade of the new development electrolyte adoption.
  - TYPE-Ⅱ: The center grade that the best sound is provided electrode foil, with the multiple use.
  - TYPE-Ⅲ: The highest tone quality grade by the low drag the gold plating terminal adoption.
- The sound quality that it meets the high tone quality needs for HD Audio equipment.
- Compliant to the RoHS directive (2011/65/EU).

Super Through
High Grade
Gold Tune

■Specifications

Item	Performance Characteristics
Category Temperature Range	– 40 to +85°C
Rated Voltage Range	16 to 100V (TYPE-Ⅰ, TYPE-Ⅱ, TYPE-Ⅲ)
Rated Capacitance Range	680 to 33000μF
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	After 5 minutes' application of rated voltage, leakage current is not more than $3\sqrt{CV}$ (μA), [C:Rated Capacitance(μF), V:Voltage(V)]
Tangent of loss angle (tan δ)	For capacitance of more than 22000μF, add 0.02 for every increase of 1000μF. Measurement frequency : 120Hz at 20°C

TYPE	TYPE-Ⅰ, TYPE-Ⅱ			TYPE-Ⅲ		
Rated voltage(V)	16	25 to 63	80・100	16	25 to 63	80・100
tan δ (MAX.)	0.35	0.30	0.25	0.25	0.22	0.20

Stability at Low Temperature

Rated voltage(V)		16 to 100
Impedance ratio ZT/Z20(MAX.)	Z – 25°C/Z+20°C	4
	Z – 40°C/Z+20°C	12

Measurement frequency : 120Hz

Endurance

The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 85°C.

Capacitance change	Within ±20% of the initial capacitance value
tan δ	200% or less than the initial specified value
Leakage current	Less than or equal to the initial specified value

Shelf Life

After storing the capacitors under no load at 85°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.

Marking

Printed with gold color letter on black sleeve.

Type numbering system (Snap-in terminal type)

(Example : Gold Tune 25 V 6800μF, Dia.φ30)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	K	G	1	E	6	8	2	M	E	S	B	B	K

Grade

Grade	Code
TYPE-Ⅰ (Gold Tune)	AK
TYPE-Ⅱ (Gold Tune)	BK
TYPE-Ⅲ (Super Through)	CK

Case dia.code

φD	Code
20	Y
22	Z
25	A
30	B
35	C

Configuration ※1
Capacitance tolerance (±20%)
Rated capacitance(6800μF)
Rated voltage(25V)
Series name
Type

※1 Configuration

Pb-free terminal Pb-free PET sleeve
ES

Type numbering system (Lug terminal type)

(Example : Super Through 50 V 15000μF)

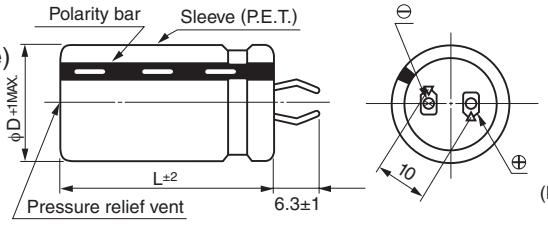
1	2	3	4	5	6	7	8	9	10	11	12
L	K	G	1	H	1	5	3	M	K	Z	S

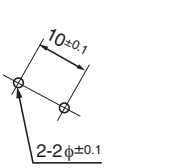
Grade

Grade	Code
TYPE-Ⅰ (Gold Tune)	F
TYPE-Ⅱ (Gold Tune)	—
TYPE-Ⅲ (Super Through)	S

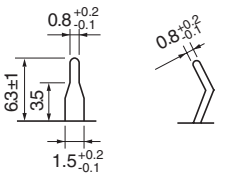
Configuration ※2
Capacitance tolerance(±20%)
Rated capacitance(15000μF)
Rated voltage(50V)
Series name
Type

(Snap-in terminal type)



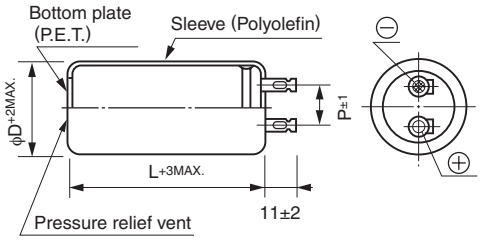


(PC board hole dimensions)



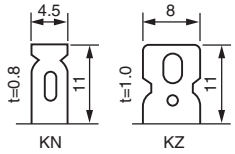
(Terminal dimensions)

(Lug terminal type)



■Configuration※2

φ35 to φ40 φ50 to φ76



(mm)

φD	35	40	50	63	76
P	14	14	18	25	25
Configuration	KN		KZ		

● Dimension table in next page.

KG series

■Dimensions (Snap-in Terminal Type : Grade TYPE-Ⅰ)

16V(1C)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
4700	22×20	1.35	0.35	LKG1C472MESZAK
5600	20×25	1.45	0.35	LKG1C562MESYAK
6800	25×20	1.70	0.35	LKG1C682MESAAK
8200	20×30	1.90	0.35	LKG1C822MESYAK
	22×25	1.90	0.35	LKG1C822MESZAK
10000	20×35	2.05	0.35	LKG1C103MESYAK
	22×30	2.05	0.35	LKG1C103MESZAK
	25×25	2.00	0.35	LKG1C103MESAAK
	30×20	2.10	0.35	LKG1C103MESBAK
12000	20×40	2.25	0.35	LKG1C123MESYAK
	22×35	2.20	0.35	LKG1C123MESZAK
	25×30	2.15	0.35	LKG1C123MESAAK
	35×20	2.10	0.35	LKG1C123MESCAK
15000	20×45	2.60	0.35	LKG1C153MESYAK
	22×40	2.50	0.35	LKG1C153MESZAK
	25×35	2.40	0.35	LKG1C153MESAAK
	30×25	2.50	0.35	LKG1C153MESBAK
18000	22×45	2.80	0.35	LKG1C183MESZAK
	25×40	2.60	0.35	LKG1C183MESAAK
	30×30	2.65	0.35	LKG1C183MESBAK
22000	25×45	2.95	0.35	LKG1C223MESAAK
	30×35	2.90	0.35	LKG1C223MESBAK
	35×25	2.90	0.35	LKG1C223MESCAK
27000	25×50	3.40	0.45	LKG1C273MESAAK
	30×40	3.25	0.45	LKG1C273MESBAK
	35×30	3.35	0.45	LKG1C273MESCAK
33000	30×45	3.70	0.57	LKG1C333MESBAK
	35×35	3.65	0.57	LKG1C333MESCAK

25V(1E)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
3300	22×20	1.50	0.30	LKG1E332MESZAK
3900	20×25	1.60	0.30	LKG1E392MESYAK
	25×20	1.55	0.30	LKG1E392MESAAK
4700	20×30	1.70	0.30	LKG1E472MESYAK
	22×25	1.70	0.30	LKG1E472MESZAK
5600	30×20	1.85	0.30	LKG1E562MESBAK
6800	20×35	2.20	0.30	LKG1E682MESYAK
	22×30	2.20	0.30	LKG1E682MESZAK
	25×25	2.15	0.30	LKG1E682MESAAK
8200	20×40	2.40	0.30	LKG1E822MESYAK
	22×35	2.35	0.30	LKG1E822MESZAK
	25×30	2.30	0.30	LKG1E822MESAAK
	35×20	2.25	0.30	LKG1E822MESCAK
10000	20×50	2.55	0.30	LKG1E103MESYAK
	22×40	2.65	0.30	LKG1E103MESZAK
	25×35	2.50	0.30	LKG1E103MESAAK
	30×25	2.65	0.30	LKG1E103MESBAK
12000	22×45	2.90	0.30	LKG1E123MESZAK
	25×40	2.75	0.30	LKG1E123MESAAK
	30×30	2.80	0.30	LKG1E123MESBAK
	35×25	2.65	0.30	LKG1E123MESCAK
15000	25×45	3.15	0.30	LKG1E153MESAAK
	30×35	3.10	0.30	LKG1E153MESBAK
18000	25×50	3.55	0.30	LKG1E183MESAAK
	30×40	3.40	0.30	LKG1E183MESBAK
	35×30	3.50	0.30	LKG1E183MESCAK
22000	30×45	3.85	0.30	LKG1E223MESBAK
	35×35	3.85	0.30	LKG1E223MESCAK
27000	35×40	4.30	0.40	LKG1E273MESCAK
33000	35×45	4.85	0.52	LKG1E333MESCAK

35V(1V)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
2200	22×20	1.45	0.30	LKG1V222MESZAK
2700	20×25	1.60	0.30	LKG1V272MESYAK
	25×20	1.55	0.30	LKG1V272MESAAK
3300	20×30	1.75	0.30	LKG1V332MESYAK
	22×25	1.75	0.30	LKG1V332MESZAK
3900	30×20	1.85	0.30	LKG1V392MESBAK
4700	20×35	2.20	0.30	LKG1V472MESYAK
	22×30	2.20	0.30	LKG1V472MESZAK
	25×25	2.15	0.30	LKG1V472MESAAK
5600	20×40	2.40	0.30	LKG1V562MESYAK
	22×35	2.35	0.30	LKG1V562MESZAK
	25×30	2.25	0.30	LKG1V562MESAAK
	35×20	2.25	0.30	LKG1V562MESCAK
6800	20×50	2.50	0.30	LKG1V682MESYAK
	22×40	2.60	0.30	LKG1V682MESZAK
	30×25	2.60	0.30	LKG1V682MESBAK
8200	22×45	2.90	0.30	LKG1V822MESZAK
	25×40	2.70	0.30	LKG1V822MESAAK
	30×30	2.75	0.30	LKG1V822MESBAK
10000	25×45	3.05	0.30	LKG1V103MESAAK
	30×35	3.00	0.30	LKG1V103MESBAK
	35×25	3.20	0.30	LKG1V103MESCAK
12000	25×50	3.45	0.30	LKG1V123MESAAK
	30×40	3.30	0.30	LKG1V123MESBAK
	35×30	3.40	0.30	LKG1V123MESCAK
15000	30×45	3.80	0.30	LKG1V153MESBAK
	35×35	3.80	0.30	LKG1V153MESCAK
18000	30×50	4.30	0.30	LKG1V183MESBAK
	35×40	4.15	0.30	LKG1V183MESCAK
22000	35×45	4.70	0.30	LKG1V223MESCAK

50V(1H)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
1500	22×20	1.55	0.30	LKG1H152MESZAK
1800	20×25	1.70	0.30	LKG1H182MESYAK
	25×20	1.65	0.30	LKG1H182MESAAK
2200	20×30	1.85	0.30	LKG1H222MESYAK
	22×25	1.85	0.30	LKG1H222MESZAK
2700	20×35	2.00	0.30	LKG1H272MESYAK
	22×30	2.00	0.30	LKG1H272MESZAK
	25×25	1.95	0.30	LKG1H272MESAAK
	30×20	2.05	0.30	LKG1H272MESBAK
3300	20×40	2.25	0.30	LKG1H332MESYAK
	22×35	2.20	0.30	LKG1H332MESZAK
3900	20×45	2.45	0.30	LKG1H392MESYAK
	22×40	2.35	0.30	LKG1H392MESZAK
	25×30	2.50	0.30	LKG1H392MESAAK
	30×25	2.35	0.30	LKG1H392MESBAK
	35×20	2.45	0.30	LKG1H392MESCAK
4700	20×50	2.75	0.30	LKG1H472MESYAK
	22×45	2.60	0.30	LKG1H472MESZAK
	25×35	2.70	0.30	LKG1H472MESAAK
5600	22×50	2.90	0.30	LKG1H562MESZAK
	25×40	2.90	0.30	LKG1H562MESAAK
	30×30	3.00	0.30	LKG1H562MESBAK
	35×25	2.85	0.30	LKG1H562MESCAK
6800	25×45	3.30	0.30	LKG1H682MESAAK
	30×35	3.25	0.30	LKG1H682MESBAK
8200	30×40	3.55	0.30	LKG1H822MESBAK
	35×30	3.65	0.30	LKG1H822MESCAK
10000	30×45	4.00	0.30	LKG1H103MESBAK
	35×35	4.00	0.30	LKG1H103MESCAK
12000	35×40	4.35	0.30	LKG1H123MESCAK
15000	35×50	4.70	0.30	LKG1H153MESCAK

Rated ripple current (Arms) at 85°C 120Hz

KG series

■Dimensions (Snap-in Terminal Type : Grade TYPE-Ⅰ)

63V(1J)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
820	22×20	1.30	0.30	LKG1J821MESZAK
1000	20×25	1.45	0.30	LKG1J102MESYAK
1200	25×20	1.65	0.30	LKG1J122MESAAK
1500	20×30	1.90	0.30	LKG1J152MESYAK
	22×25	1.90	0.30	LKG1J152MESZAK
1800	20×35	2.05	0.30	LKG1J182MESYAK
	22×30	2.00	0.30	LKG1J182MESZAK
	25×25	2.00	0.30	LKG1J182MESAAK
	30×20	2.05	0.30	LKG1J182MESBAK
2200	20×40	2.25	0.30	LKG1J222MESYAK
	22×35	2.20	0.30	LKG1J222MESZAK
	25×30	2.15	0.30	LKG1J222MESAAK
	35×20	2.10	0.30	LKG1J222MESCAK
2700	20×50	2.40	0.30	LKG1J272MESYAK
	22×40	2.45	0.30	LKG1J272MESZAK
	25×35	2.35	0.30	LKG1J272MESAAK
	30×25	2.50	0.30	LKG1J272MESBAK
3300	22×45	2.80	0.30	LKG1J332MESZAK
	25×40	2.60	0.30	LKG1J332MESAAK
	30×30	2.70	0.30	LKG1J332MESBAK
3900	25×45	2.85	0.30	LKG1J392MESAAK
	30×35	2.85	0.30	LKG1J392MESBAK
	35×25	3.00	0.30	LKG1J392MESCAK
4700	25×50	3.20	0.30	LKG1J472MESAAK
	30×40	3.10	0.30	LKG1J472MESBAK
	35×30	3.20	0.30	LKG1J472MESCAK
5600	30×45	3.45	0.30	LKG1J562MESBAK
	35×35	3.40	0.30	LKG1J562MESCAK
6800	30×50	3.90	0.30	LKG1J682MESBAK
	35×40	3.75	0.30	LKG1J682MESCAK
8200	35×45	4.20	0.30	LKG1J822MESCAK
10000	35×50	4.80	0.30	LKG1J103MESCAK

80V(1K)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
820	20×25	1.70	0.25	LKG1K821MESYAK
	25×20	1.65	0.25	LKG1K821MESAAK
1000	20×30	1.80	0.25	LKG1K102MESYAK
	22×25	1.85	0.25	LKG1K102MESZAK
1200	20×35	1.95	0.25	LKG1K122MESYAK
	22×30	1.95	0.25	LKG1K122MESZAK
	25×25	1.90	0.25	LKG1K122MESAAK
	30×20	2.00	0.25	LKG1K122MESBAK
1500	20×40	2.20	0.25	LKG1K152MESYAK
	22×35	2.15	0.25	LKG1K152MESZAK
	25×30	2.10	0.25	LKG1K152MESAAK
1800	20×45	2.45	0.25	LKG1K182MESYAK
	22×40	2.35	0.25	LKG1K182MESZAK
	30×25	2.40	0.25	LKG1K182MESBAK
	35×20	2.50	0.25	LKG1K182MESCAK
2200	22×45	2.70	0.25	LKG1K222MESZAK
	25×35	2.75	0.25	LKG1K222MESAAK
	30×30	2.55	0.25	LKG1K222MESBAK
2700	30×35	2.80	0.25	LKG1K272MESBAK
	35×25	3.00	0.25	LKG1K272MESCAK
3300	25×50	3.25	0.25	LKG1K332MESAAK
	30×40	3.15	0.25	LKG1K332MESBAK
	35×30	3.20	0.25	LKG1K332MESCAK
3900	30×45	3.45	0.25	LKG1K392MESBAK
	35×35	3.40	0.25	LKG1K392MESCAK
4700	30×45	3.85	0.25	LKG1K472MESBAK
	35×40	3.75	0.25	LKG1K472MESCAK
5600	35×45	4.10	0.25	LKG1K562MESCAK
6800	35×50	4.65	0.25	LKG1K682MESCAK

100V(2A)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
680	20×30	1.70	0.25	LKG2A681MESYAK
	22×25	1.75	0.25	LKG2A681MESZAK
820	20×35	1.85	0.25	LKG2A821MESYAK
	22×30	1.85	0.25	LKG2A821MESZAK
	25×25	1.80	0.25	LKG2A821MESAAK
	30×20	1.90	0.25	LKG2A821MESBAK
1000	20×40	2.05	0.25	LKG2A102MESYAK
1200	20×45	2.30	0.25	LKG2A122MESYAK
	22×40	2.20	0.25	LKG2A122MESZAK
	25×30	2.35	0.25	LKG2A122MESAAK
	30×25	2.20	0.25	LKG2A122MESBAK
	35×20	2.30	0.25	LKG2A122MESCAK
1500	20×50	2.65	0.25	LKG2A152MESYAK
	22×45	2.55	0.25	LKG2A152MESZAK
	25×35	2.60	0.25	LKG2A152MESAAK
1800	22×50	2.85	0.25	LKG2A182MESZAK
	25×40	2.85	0.25	LKG2A182MESAAK
	30×30	2.90	0.25	LKG2A182MESBAK
	35×25	2.75	0.25	LKG2A182MESCAK
2200	25×45	3.20	0.25	LKG2A222MESAAK
	30×35	3.20	0.25	LKG2A222MESBAK
	35×30	3.00	0.25	LKG2A222MESCAK
2700	30×40	3.55	0.25	LKG2A272MESBAK
	35×35	3.25	0.25	LKG2A272MESCAK
3300	30×50	3.75	0.25	LKG2A332MESBAK
3900	35×40	4.30	0.25	LKG2A392MESCAK
4700	35×50	4.50	0.25	LKG2A472MESCAK

Rated ripple current (Arms) at 85°C 120Hz

KG series

■Dimensions (Snap-in Terminal Type : Grade TYPE-Ⅱ)

16V(1C)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
2200	20×20	1.10	0.35	LKG1C222MESYBK
3300	22×20	1.50	0.35	LKG1C332MESZBK
3900	20×25	1.55	0.35	LKG1C392MESYBK
	25×20	1.55	0.35	LKG1C392MESABK
4700	20×30	1.75	0.35	LKG1C472MESYBK
	22×25	1.75	0.35	LKG1C472MESZBK
5600	30×20	1.85	0.35	LKG1C562MESBBK
6800	20×35	2.20	0.35	LKG1C682MESYBK
	22×30	2.20	0.35	LKG1C682MESZBK
	25×25	2.15	0.35	LKG1C682MESABK
8200	20×40	2.40	0.35	LKG1C822MESYBK
	22×35	2.40	0.35	LKG1C822MESZBK
	25×30	2.30	0.35	LKG1C822MESABK
	35×20	2.25	0.35	LKG1C822MESCBK
10000	20×50	2.65	0.35	LKG1C103MESYBK
	22×40	2.65	0.35	LKG1C103MESZBK
	25×35	2.45	0.35	LKG1C103MESABK
	30×25	2.50	0.35	LKG1C103MESBBK
12000	22×50	2.75	0.35	LKG1C123MESZBK
	25×40	2.75	0.35	LKG1C123MESABK
	30×30	2.75	0.35	LKG1C123MESBBK
	35×25	2.60	0.35	LKG1C123MESCBK
15000	25×45	3.10	0.35	LKG1C153MESABK
	30×35	3.10	0.35	LKG1C153MESBBK
18000	25×50	3.50	0.35	LKG1C183MESABK
	30×40	3.40	0.35	LKG1C183MESBBK
	35×30	3.45	0.35	LKG1C183MESCBK
22000	30×45	3.80	0.35	LKG1C223MESBBK
	35×35	3.80	0.35	LKG1C223MESCBK
27000	30×50	4.25	0.45	LKG1C273MESBBK
	35×40	4.25	0.45	LKG1C273MESCBK
33000	35×45	4.50	0.57	LKG1C333MESCBK

35V(1V)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
1200	22×20	1.30	0.30	LKG1V122MESZBK
1500	20×25	1.40	0.30	LKG1V152MESYBK
1800	22×25	1.55	0.30	LKG1V182MESZBK
	25×20	1.65	0.30	LKG1V182MESABK
2200	20×30	1.75	0.30	LKG1V222MESYBK
2700	20×35	2.05	0.30	LKG1V272MESYBK
	22×30	2.05	0.30	LKG1V272MESZBK
	25×25	2.00	0.30	LKG1V272MESABK
	30×20	2.05	0.30	LKG1V272MESBBK
3300	20×40	2.25	0.30	LKG1V332MESYBK
	22×35	2.25	0.30	LKG1V332MESZBK
	25×30	2.20	0.30	LKG1V332MESABK
3900	20×45	2.40	0.30	LKG1V392MESYBK
	22×40	2.40	0.30	LKG1V392MESZBK
	25×35	2.30	0.30	LKG1V392MESABK
	30×25	2.40	0.30	LKG1V392MESBBK
	35×20	2.50	0.30	LKG1V392MESCBK
4700	22×45	2.70	0.30	LKG1V472MESZBK
	30×30	2.55	0.30	LKG1V472MESBBK
5600	22×50	3.00	0.30	LKG1V562MESZBK
	25×40	3.00	0.30	LKG1V562MESABK
	35×25	2.85	0.30	LKG1V562MESCBK
6800	25×50	3.10	0.30	LKG1V682MESABK
	30×35	3.30	0.30	LKG1V682MESBBK
	35×30	3.05	0.30	LKG1V682MESCBK
8200	30×40	3.60	0.30	LKG1V822MESBBK
	35×35	3.30	0.30	LKG1V822MESCBK
10000	30×50	3.80	0.30	LKG1V103MESBBK
	35×40	3.70	0.30	LKG1V103MESCBK
12000	35×45	4.10	0.30	LKG1V123MESCBK
15000	35×50	4.80	0.30	LKG1V153MESCBK

25V(1E)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
1800	20×20	1.35	0.30	LKG1E182MESYBK
2200	20×25	1.50	0.30	LKG1E222MESYBK
	25×20	1.50	0.30	LKG1E222MESABK
2700	20×30	1.70	0.30	LKG1E272MESYBK
	22×25	1.70	0.30	LKG1E272MESZBK
3300	20×35	1.80	0.30	LKG1E332MESYBK
	22×30	1.80	0.30	LKG1E332MESZBK
	30×20	1.85	0.30	LKG1E332MESBBK
3900	25×25	2.10	0.30	LKG1E392MESABK
4700	20×45	2.30	0.30	LKG1E472MESYBK
	22×35	2.30	0.30	LKG1E472MESZBK
	25×30	2.25	0.30	LKG1E472MESABK
	35×20	2.20	0.30	LKG1E472MESCBK
5600	20×50	2.50	0.30	LKG1E562MESYBK
	22×40	2.50	0.30	LKG1E562MESZBK
	25×35	2.40	0.30	LKG1E562MESABK
	30×25	2.50	0.30	LKG1E562MESBBK
6800	22×50	2.65	0.30	LKG1E682MESZBK
	25×40	2.65	0.30	LKG1E682MESABK
	30×30	2.65	0.30	LKG1E682MESBBK
8200	25×45	2.90	0.30	LKG1E822MESABK
	30×35	2.85	0.30	LKG1E822MESBBK
	35×25	3.05	0.30	LKG1E822MESCBK
10000	25×50	3.30	0.30	LKG1E103MESABK
	30×40	3.30	0.30	LKG1E103MESBBK
	35×30	3.30	0.30	LKG1E103MESCBK
12000	30×45	3.55	0.30	LKG1E123MESBBK
	35×35	3.50	0.30	LKG1E123MESCBK
15000	30×50	4.15	0.30	LKG1E153MESBBK
	35×40	4.00	0.30	LKG1E153MESCBK
18000	35×45	4.45	0.30	LKG1E183MESCBK

50V(1H)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
820	22×20	1.00	0.30	LKG1H821MESZBK
1000	20×25	1.50	0.30	LKG1H102MESYBK
	25×20	1.50	0.30	LKG1H102MESABK
1200	20×30	1.65	0.30	LKG1H122MESYBK
	22×25	1.65	0.30	LKG1H122MESZBK
1500	20×35	1.80	0.30	LKG1H152MESYBK
	22×30	1.80	0.30	LKG1H152MESZBK
	30×20	1.80	0.30	LKG1H152MESBBK
1800	25×25	2.15	0.30	LKG1H182MESABK
2200	20×45	2.35	0.30	LKG1H222MESYBK
	22×35	2.35	0.30	LKG1H222MESZBK
	25×30	2.30	0.30	LKG1H222MESABK
	35×20	2.25	0.30	LKG1H222MESCBK
2700	20×50	2.45	0.30	LKG1H272MESYBK
	22×45	2.45	0.30	LKG1H272MESZBK
	25×35	2.50	0.30	LKG1H272MESABK
	30×25	2.60	0.30	LKG1H272MESBBK
3300	22×50	2.80	0.30	LKG1H332MESZBK
	25×40	2.80	0.30	LKG1H332MESABK
	30×30	2.80	0.30	LKG1H332MESBBK
3900	25×45	3.00	0.30	LKG1H392MESABK
	30×35	3.00	0.30	LKG1H392MESBBK
	35×25	3.15	0.30	LKG1H392MESCBK
4700	25×50	3.40	0.30	LKG1H472MESABK
	30×40	3.30	0.30	LKG1H472MESBBK
	35×30	3.35	0.30	LKG1H472MESCBK
5600	30×45	3.60	0.30	LKG1H562MESBBK
	35×35	3.60	0.30	LKG1H562MESCBK
6800	30×50	4.10	0.30	LKG1H682MESBBK
	35×40	3.95	0.30	LKG1H682MESCBK
8200	35×45	4.40	0.30	LKG1H822MESCBK
10000	35×50	5.05	0.30	LKG1H103MESCBK

Rated ripple current (Arms) at 85°C 120Hz

KG series

■Dimensions (Snap-in Terminal Type : Grade TYPE-Ⅱ)

63V(1J)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
820	20×25	1.65	0.30	LKG1J821MESYBK
	25×20	1.65	0.30	LKG1J821MESABK
1000	20×30	1.85	0.30	LKG1J102MESYBK
	22×25	1.85	0.30	LKG1J102MESZBK
1200	20×35	1.95	0.30	LKG1J122MESYBK
	22×30	1.95	0.30	LKG1J122MESZBK
	25×25	1.90	0.30	LKG1J122MESABK
	30×20	1.95	0.30	LKG1J122MESBBK
1500	20×40	2.15	0.30	LKG1J152MESYBK
	22×35	2.15	0.30	LKG1J152MESZBK
	25×30	2.10	0.30	LKG1J152MESABK
1800	20×45	2.35	0.30	LKG1J182MESYBK
	22×40	2.35	0.30	LKG1J182MESZBK
	30×25	2.35	0.30	LKG1J182MESBBK
	35×20	2.45	0.30	LKG1J182MESCBK
2200	22×45	2.70	0.30	LKG1J222MESZBK
	25×35	2.75	0.30	LKG1J222MESABK
	30×30	2.50	0.30	LKG1J222MESBBK
2700	25×45	2.80	0.30	LKG1J272MESABK
	30×35	2.75	0.30	LKG1J272MESBBK
	35×25	2.95	0.30	LKG1J272MESCBK
3300	25×50	3.20	0.30	LKG1J332MESABK
	30×40	3.20	0.30	LKG1J332MESBBK
	35×30	3.15	0.30	LKG1J332MESCBK
3900	30×45	3.35	0.30	LKG1J392MESBBK
	35×35	3.35	0.30	LKG1J392MESCBK
4700	30×50	3.80	0.30	LKG1J472MESBBK
5600	35×40	4.35	0.30	LKG1J562MESCBK
6800	35×50	4.60	0.30	LKG1J682MESCBK

80V(1K)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
820	20×35	2.05	0.25	LKG1K821MESYBK
	22×30	2.05	0.25	LKG1K821MESZBK
	25×25	2.00	0.25	LKG1K821MESABK
	30×20	2.05	0.25	LKG1K821MESBBK
1000	20×45	2.20	0.25	LKG1K102MESYBK
	22×35	2.20	0.25	LKG1K102MESZBK
	25×30	2.15	0.25	LKG1K102MESABK
	35×20	2.10	0.25	LKG1K102MESCBK
1200	20×50	2.45	0.25	LKG1K122MESYBK
	22×40	2.45	0.25	LKG1K122MESZBK
	25×35	2.30	0.25	LKG1K122MESABK
	30×25	2.40	0.25	LKG1K122MESBBK
1500	22×50	2.60	0.25	LKG1K152MESZBK
	25×40	2.65	0.25	LKG1K152MESABK
	30×30	2.65	0.25	LKG1K152MESBBK
1800	25×45	2.85	0.25	LKG1K182MESABK
	30×35	2.85	0.25	LKG1K182MESBBK
	35×25	3.00	0.25	LKG1K182MESCBK
2200	25×50	3.25	0.25	LKG1K222MESABK
	30×40	3.15	0.25	LKG1K222MESBBK
	35×30	3.25	0.25	LKG1K222MESCBK
2700	30×45	3.60	0.25	LKG1K272MESBBK
	35×35	3.55	0.25	LKG1K272MESCBK
3300	30×50	4.10	0.25	LKG1K332MESBBK
	35×40	3.95	0.25	LKG1K332MESCBK
3900	35×45	4.35	0.25	LKG1K392MESCBK
4700	35×50	4.85	0.25	LKG1K472MESCBK

100V(2A)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
680	20×40	2.15	0.25	LKG2A681MESYBK
	22×35	2.15	0.25	LKG2A681MESZBK
	25×30	2.10	0.25	LKG2A681MESABK
820	20×45	2.40	0.25	LKG2A821MESYBK
	22×40	2.40	0.25	LKG2A821MESZBK
	30×25	2.35	0.25	LKG2A821MESBBK
	35×20	2.45	0.25	LKG2A821MESCBK
1000	22×45	2.70	0.25	LKG2A102MESZBK
	25×35	2.75	0.25	LKG2A102MESABK
1200	22×50	3.00	0.25	LKG2A122MESZBK
	25×40	2.75	0.25	LKG2A122MESABK
	30×30	3.05	0.25	LKG2A122MESBBK
	35×25	2.90	0.25	LKG2A122MESCBK
1500	25×50	3.20	0.25	LKG2A152MESABK
	30×35	3.40	0.25	LKG2A152MESBBK
	35×30	3.20	0.25	LKG2A152MESCBK
1800	30×40	3.70	0.25	LKG2A182MESBBK
	35×35	3.40	0.25	LKG2A182MESCBK
2200	30×50	3.95	0.25	LKG2A222MESBBK
	35×40	3.80	0.25	LKG2A222MESCBK
2700	35×45	4.30	0.25	LKG2A272MESCBK
3300	35×50	4.95	0.25	LKG2A332MESCBK

Rated ripple current (Arms) at 85°C 120Hz

KG series

■Dimensions (Snap-in Terminal Type : Grade TYPE-Ⅲ)

16V(1C)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
1000	20×20	0.90	0.25	LKG1C102MESYCK
1200	22×20	0.95	0.25	LKG1C122MESZCK
1500	20×25	1.10	0.25	LKG1C152MESYCK
	25×20	1.10	0.25	LKG1C152MESACK
1800	22×25	1.20	0.25	LKG1C182MESZCK
2200	20×30	1.35	0.25	LKG1C222MESYCK
	30×20	1.35	0.25	LKG1C222MESBCK
2700	20×35	1.75	0.25	LKG1C272MESYCK
	25×25	1.75	0.25	LKG1C272MESACK
3300	20×40	2.00	0.25	LKG1C332MESYCK
	25×30	2.00	0.25	LKG1C332MESACK
	35×20	1.95	0.25	LKG1C332MESCCK
3900	20×50	2.30	0.25	LKG1C392MESYCK
	22×45	2.30	0.25	LKG1C392MESZCK
	25×35	2.35	0.25	LKG1C392MESACK
	30×25	2.35	0.25	LKG1C392MESBCK
4700	22×50	2.75	0.25	LKG1C472MESZCK
	25×40	2.70	0.25	LKG1C472MESACK
	30×30	2.70	0.25	LKG1C472MESBCK
	35×25	2.60	0.25	LKG1C472MESCCK
5600	25×45	2.90	0.25	LKG1C562MESACK
	30×35	2.90	0.25	LKG1C562MESBCK
6800	25×50	3.20	0.25	LKG1C682MESACK
	30×40	3.20	0.25	LKG1C682MESBCK
	35×30	3.15	0.25	LKG1C682MESCCK
8200	30×45	3.35	0.25	LKG1C822MESBCK
	35×35	3.30	0.25	LKG1C822MESCCK
10000	35×40	3.50	0.25	LKG1C103MESCCK
12000	35×45	3.70	0.25	LKG1C123MESCCK

25V(1E)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
680	20×20	0.65	0.22	LKG1E681MESYCK
820	22×20	0.75	0.22	LKG1E821MESZCK
1000	25×20	0.95	0.22	LKG1E102MESACK
1200	20×25	1.20	0.22	LKG1E122MESYCK
1500	20×30	1.30	0.22	LKG1E152MESYCK
	30×20	1.30	0.22	LKG1E152MESBCK
1800	20×35	1.60	0.22	LKG1E182MESYCK
	25×25	1.55	0.22	LKG1E182MESACK
2200	20×40	1.85	0.22	LKG1E222MESYCK
	22×35	1.85	0.22	LKG1E222MESZCK
	25×30	1.80	0.22	LKG1E222MESACK
	30×25	1.80	0.22	LKG1E222MESBCK
	35×20	1.75	0.22	LKG1E222MESCCK
2700	20×50	2.20	0.22	LKG1E272MESYCK
	22×45	2.20	0.22	LKG1E272MESZCK
	25×35	2.15	0.22	LKG1E272MESACK
3300	22×50	2.50	0.22	LKG1E332MESZCK
	25×40	2.45	0.22	LKG1E332MESACK
	30×30	2.40	0.22	LKG1E332MESBCK
	35×25	2.45	0.22	LKG1E332MESCCK
3900	25×45	2.80	0.22	LKG1E392MESACK
	30×35	2.80	0.22	LKG1E392MESBCK
4700	30×40	3.25	0.22	LKG1E472MESBCK
	35×30	3.15	0.22	LKG1E472MESCCK
5600	30×45	3.50	0.22	LKG1E562MESBCK
	35×35	3.50	0.22	LKG1E562MESCCK
6800	35×40	3.80	0.22	LKG1E682MESCCK
8200	35×45	4.00	0.22	LKG1E822MESCCK

35V(1V)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
820	20×25	0.85	0.22	LKG1V821MESYCK
	25×20	0.85	0.22	LKG1V821MESACK
1000	20×30	1.05	0.22	LKG1V102MESYCK
	22×25	1.00	0.22	LKG1V102MESZCK
1200	20×35	1.45	0.22	LKG1V122MESYCK
	22×30	1.45	0.22	LKG1V122MESZCK
	25×25	1.40	0.22	LKG1V122MESACK
	30×20	1.40	0.22	LKG1V122MESBCK
1500	20×40	1.55	0.22	LKG1V152MESYCK
	22×35	1.55	0.22	LKG1V152MESZCK
	25×30	1.50	0.22	LKG1V152MESACK
1800	20×45	1.80	0.22	LKG1V182MESYCK
	22×40	1.75	0.22	LKG1V182MESZCK
	30×25	1.75	0.22	LKG1V182MESBCK
	35×20	1.70	0.22	LKG1V182MESCCK
2200	20×50	2.00	0.22	LKG1V222MESYCK
	22×45	1.95	0.22	LKG1V222MESZCK
	25×35	1.95	0.22	LKG1V222MESACK
	30×30	1.95	0.22	LKG1V222MESBCK
2700	25×45	2.35	0.22	LKG1V272MESACK
	30×35	2.30	0.22	LKG1V272MESBCK
	35×25	2.30	0.22	LKG1V272MESCCK
3300	25×50	2.70	0.22	LKG1V332MESACK
	30×40	2.70	0.22	LKG1V332MESBCK
	35×30	2.65	0.22	LKG1V332MESCCK
3900	30×45	3.00	0.22	LKG1V392MESBCK
	35×35	3.00	0.22	LKG1V392MESCCK
4700	30×50	3.55	0.22	LKG1V472MESBCK
	35×40	3.55	0.22	LKG1V472MESCCK
5600	35×45	3.80	0.22	LKG1V562MESCCK
6800	35×50	4.15	0.22	LKG1V682MESCCK

50V(1H)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
680	20×30	1.05	0.22	LKG1H681MESYCK
	22×25	1.00	0.22	LKG1H681MESZCK
820	22×30	1.40	0.22	LKG1H821MESZCK
	25×25	1.35	0.22	LKG1H821MESACK
	30×20	1.35	0.22	LKG1H821MESBCK
1000	20×35	1.80	0.22	LKG1H102MESYCK
1200	20×40	1.95	0.22	LKG1H122MESYCK
	25×30	1.95	0.22	LKG1H122MESACK
	30×25	1.90	0.22	LKG1H122MESBCK
	35×20	1.90	0.22	LKG1H122MESCCK
1500	20×50	2.20	0.22	LKG1H152MESYCK
	22×45	2.20	0.22	LKG1H152MESZCK
	25×35	2.15	0.22	LKG1H152MESACK
	30×30	2.15	0.22	LKG1H152MESBCK
1800	22×50	2.45	0.22	LKG1H182MESZCK
	25×40	2.45	0.22	LKG1H182MESACK
	35×25	2.40	0.22	LKG1H182MESCCK
2200	25×50	2.65	0.22	LKG1H222MESACK
	30×35	2.60	0.22	LKG1H222MESBCK
	35×30	2.60	0.22	LKG1H222MESCCK
2700	30×45	3.00	0.22	LKG1H272MESBCK
	35×35	2.95	0.22	LKG1H272MESCCK
3300	30×50	3.30	0.22	LKG1H332MESBCK
	35×40	3.25	0.22	LKG1H332MESCCK
3900	35×45	3.50	0.22	LKG1H392MESCCK
4700	35×50	3.90	0.22	LKG1H472MESCCK

Rated ripple current (Arms) at 85°C 120Hz

KG series

■Dimensions (Snap-in Terminal Type : Grade TYPE-Ⅲ)

63V(1J)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
680	20×30	1.75	0.22	LKG1J681MESYCK
	22×25	1.75	0.22	LKG1J681MESZCK
	30×20	1.90	0.22	LKG1J681MESBCK
820	20×35	1.90	0.22	LKG1J821MESYCK
	22×30	1.90	0.22	LKG1J821MESZCK
	25×25	1.85	0.22	LKG1J821MESACK
1000	20×40	2.10	0.22	LKG1J102MESYCK
	22×35	2.05	0.22	LKG1J102MESZCK
	25×30	2.00	0.22	LKG1J102MESACK
1200	20×45	2.35	0.22	LKG1J122MESYCK
	22×40	2.25	0.22	LKG1J122MESZCK
	30×25	2.20	0.22	LKG1J122MESBCK
	35×20	2.30	0.22	LKG1J122MESCCK
1500	22×45	2.60	0.22	LKG1J152MESZCK
	25×35	2.65	0.22	LKG1J152MESACK
1800	22×50	2.90	0.22	LKG1J182MESZCK
	25×40	2.90	0.22	LKG1J182MESACK
	30×30	2.90	0.22	LKG1J182MESBCK
	35×25	2.75	0.22	LKG1J182MESCCK
2200	25×45	3.25	0.22	LKG1J222MESACK
	30×35	3.20	0.22	LKG1J222MESBCK
2700	30×45	3.30	0.22	LKG1J272MESBCK
	35×30	3.65	0.22	LKG1J272MESCCK
3300	30×50	3.80	0.22	LKG1J332MESBCK
	35×35	4.00	0.22	LKG1J332MESCCK
3900	35×40	4.30	0.22	LKG1J392MESCCK
4700	35×50	4.50	0.22	LKG1J472MESCCK

80V(1K)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
680	20×45	2.10	0.20	LKG1K681MESYCK
	22×35	2.25	0.20	LKG1K681MESZCK
	25×30	2.15	0.20	LKG1K681MESACK
820	20×50	2.40	0.20	LKG1K821MESYCK
	22×40	2.45	0.20	LKG1K821MESZCK
	25×35	2.35	0.20	LKG1K821MESACK
	30×25	2.40	0.20	LKG1K821MESBCK
	35×20	2.55	0.20	LKG1K821MESCCK
1000	22×50	2.60	0.20	LKG1K102MESZCK
	25×40	2.60	0.20	LKG1K102MESACK
	30×30	2.60	0.20	LKG1K102MESBCK
1200	25×45	2.85	0.20	LKG1K122MESACK
	30×35	2.80	0.20	LKG1K122MESBCK
	35×25	2.95	0.20	LKG1K122MESCCK
1500	25×50	3.30	0.20	LKG1K152MESACK
	30×40	3.20	0.20	LKG1K152MESBCK
	35×30	3.25	0.20	LKG1K152MESCCK
1800	30×45	3.55	0.20	LKG1K182MESBCK
	35×35	3.50	0.20	LKG1K182MESCCK
2200	30×50	4.05	0.20	LKG1K222MESBCK
	35×40	3.90	0.20	LKG1K222MESCCK
2700	35×45	4.45	0.20	LKG1K272MESCCK
3300	35×50	5.05	0.20	LKG1K332MESCCK

100V(2A)				
Cap. (μF)	Size φD × L(mm)	Rated ripple (Arms)	tan δ	Code
680	22×45	2.65	0.20	LKG2A681MESZCK
	25×35	2.70	0.20	LKG2A681MESACK
820	22×50	3.00	0.20	LKG2A821MESZCK
	25×40	3.00	0.20	LKG2A821MESACK
	30×30	3.00	0.20	LKG2A821MESBCK
	35×25	2.85	0.20	LKG2A821MESCCK
1000	25×50	3.10	0.20	LKG2A102MESACK
	30×35	3.30	0.20	LKG2A102MESBCK
	35×30	3.05	0.20	LKG2A102MESCCK
1200	30×40	3.60	0.20	LKG2A122MESBCK
	35×35	3.30	0.20	LKG2A122MESCCK
1500	30×50	3.90	0.20	LKG2A152MESBCK
	35×40	3.75	0.20	LKG2A152MESCCK
1800	35×45	4.15	0.20	LKG2A182MESCCK
2200	35×50	4.75	0.20	LKG2A222MESCCK

Rated ripple current (Arms) at 85°C 120Hz

KG series

■Dimensions (Lug Terminal Type : Grade TYPE-Ⅰ)

Rated Voltage (V)(code)	Cap. (μF)	Size φD x L(mm)	Rated ripple (Arms)	tan δ	Code
50V(1H)	22000	40×68	5.40	0.30	LKG1H223MKNF
63V(1J)	15000	40×68	5.60	0.30	LKG1J153MKNF
	22000	40×100	6.60	0.30	LKG1J223MKNF
80V(1K)	10000	40×68	5.40	0.25	LKG1K103MKNF
	15000	40×100	6.50	0.25	LKG1K153MKNF
	22000	50×100	7.80	0.25	LKG1K223MKZF
100V(2A)	6800	40×68	5.10	0.25	LKG2A682MKNF
	10000	40×100	6.00	0.25	LKG2A103MKNF
	15000	50×100	7.40	0.25	LKG2A153MKZF
	22000	63×80	9.70	0.25	LKG2A223MKZF

■Dimensions (Lug Terminal Type : Grade TYPE-Ⅱ)

Rated Voltage (V)(code)	Cap. (μF)	Size φD x L(mm)	Rated ripple (Arms)	tan δ	Code
50(1H)	10000	35×80	4.60	0.30	LKG1H103MKN
	15000	40×80	6.10	0.30	LKG1H153MKN
	22000	50×80	8.30	0.30	LKG1H223MKZ
63(1J)	6800	35×68	4.30	0.30	LKG1J682MKN
	10000	40×80	4.90	0.30	LKG1J103MKN
	15000	40×100	6.70	0.30	LKG1J153MKN
	22000	50×100	9.10	0.30	LKG1J223MKZ
80(1K)	6800	40×100	6.10	0.25	LKG1K682MKN
	10000	50×80	6.20	0.25	LKG1K103MKZ
	15000	50×100	8.40	0.25	LKG1K153MKZ
	22000	63×100	11.6	0.25	LKG1K223MKZ
100(2A)	6800	50×80	6.20	0.25	LKG2A682MKZ
	10000	50×100	6.90	0.25	LKG2A103MKZ
	15000	63×80	8.70	0.25	LKG2A153MKZ
	22000	76×100	12.9	0.25	LKG2A223MKZ

■Dimensions (Lug Terminal Type : Grade TYPE-Ⅲ)

Rated Voltage (V)(code)	Cap. (μF)	Size φD x L(mm)	Rated ripple (Arms)	tan δ	Code
50(1H)	6800	40×80	5.50	0.22	LKG1H682MKNS
	10000	40×100	6.10	0.22	LKG1H103MKNS
	15000	50×100	8.40	0.22	LKG1H153MKZS
	22000	63×80	10.5	0.22	LKG1H223MKZS
63(1J)	6800	40×100	6.10	0.22	LKG1J682MKNS
	10000	50×80	6.20	0.22	LKG1J103MKZS
	15000	63×80	8.70	0.22	LKG1J153MKZS
	22000	63×100	11.6	0.22	LKG1J223MKZS
80(1K)	6800	50×80	6.70	0.20	LKG1K682MKZS
	10000	63×80	7.60	0.20	LKG1K103MKZS
	15000	63×100	10.1	0.20	LKG1K153MKZS
	22000	76×100	13.7	0.20	LKG1K223MKZS
100(2A)	6800	50×100	7.30	0.20	LKG2A682MKZS
	10000	63×100	8.30	0.20	LKG2A103MKZS
	15000	76×100	11.3	0.20	LKG2A153MKZS

Rated ripple current (Arms) at 85°C 120Hz