

Large Can Aluminum Electrolytic Capacitors

Classification	Series	Configuration	Applications	Category Temperature Range (°C)	Features						Rated Voltage Range (V.D.C)	Rated Capacitance Range (μF)	Tolerance on Rated Capacitance (%)	Page
					Standard type	Smaller-sized & low profile	High ripple	High reliability	Long life	Anti-cleaning solvent				
Standard type	LS	692	85°C Standard	-40 (-25) to +85	●					▲	16 to 450	56 to 56000	±20	223
	LG	692	85°C Smaller-Sized	-40 (-25) to +85	●						160 to 450	120 to 3900	±20	228
	GU	692	105°C Standard	-40 (-25) to +105	●					▲	16 to 450	47 to 47000	±20	231
	GN	692	105°C Smaller-sized	-40 (-25) to +105	●						160 to 450	56 to 3300	±20	236
	GG	692	105°C Ultra Smaller-Sized	-40 (-25) to +105	●						160 to 450	100 to 3300	±20	242
	GL	692	105°C Ultra Smaller-Sized	-25 to +105	●						400 · 450	120 to 1000	±20	240
	GJ	692	105°C Low-Profile Sized	-40 (-25) to +105	●						160 to 400	39 to 680	±20	245
	GJ(15)	692	105°C Low-Profile Sized (15mmL)	-40 (-25) to +105	●						160 to 400	39 to 390	±20	246
	GY	692	105°C Long Life Assurance	-40 to +105					●	●	16 to 100	560 to 47000	±20	247
	GR	692	105°C Long Life, Assurance	-40 (-25) to +105						●	200 to 450	39 to 1500	±20	250
	GX	692	105°C Long Life, Smaller-Sized	-25 to +105		●				●	200 to 450	82 to 2200	±20	252
	GW	692	105°C High Ripple Current	-40 (-25) to +105			●				200 to 450	82 to 2200	±20	254
	AD ※	692	105°C Withstanding Overvoltage	-40 to +105					●		250	82 to 1200	±20	264
	AK	692	105°C Permissible Abnormal Voltage	-25 to +105					●		200·400·420	33 to 1200	±20	256
	AQ	692	105°C Permissible Abnormal Voltage, Smaller-sized	-25 to +105		●		●			200·220·400	33 to 1500	±20	258
	AR	692	105°C Permissible Overvoltage	-40 (-25) to +105		●		●			200 to 450	82 to 2200	±20	260
QS	692	105°C Permissible for Rapid Charge and Discharge Application	-25 to +105		●		●			350 to 450	82 to 820	±20	262	
Screw Terminal Type	NR	331	85°C Standard	-40 (-25) to +85	●		●				10 to 250	1000 to 2200000	±20	266
	NX	331	85°C Long Life Assurance	-25 to +85			●	●	●		350 to 630	1000 to 27000	±20	270
	NK	331	85°C Smaller-Sized	-25 to +85		●					350 to 500	1000 to 18000	±20	278
	QR	331	85°C Permissible for Rapid Charge and Discharge Application	-25 to +85		●	●	●			350 to 450	680 to 15000	±20	280
	NW	331	85°C High Voltage, For general Inverter	-25 to +85	●						350 to 550	100 to 12000	±20	273
	NEW NY	331	85°C High Voltage, For General Inverter, Smaller-Sized	-40 to +85		●					350 to 450	820 to 22000	±20	276
For audio equipment	NT	331	105°C Standard	-40 (-25) to +105	●		●	●			10 to 500	220 to 1500000	±20	282
	KG	621 692	Lug / Snap-in Terminal Type, For Audio Equipment	-40 to +85	●						16 to 100	680 to 33000	±20	287
	KS	692	Snap-in Terminal Type, For Audio Equipment, Smaller-Sized	-40 to +85		●					25 to 100	680 to 33000	±20	290
	KX	692	Snap-in Terminal Type, For Audio Equipment of Switching Power Supplies	-40 (-25) to +105							200 to 450	56 to 2200	±20	294

※ Products which are scheduled to be discontinued.
Not recommended for new designs

Above description is a feature against AK-225AES.

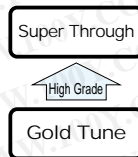
▲ : Applicable up to 100V ratings or less. Please refer to page 19 for details of cleaning.

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

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



- Designed 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 (2002/95/EC).

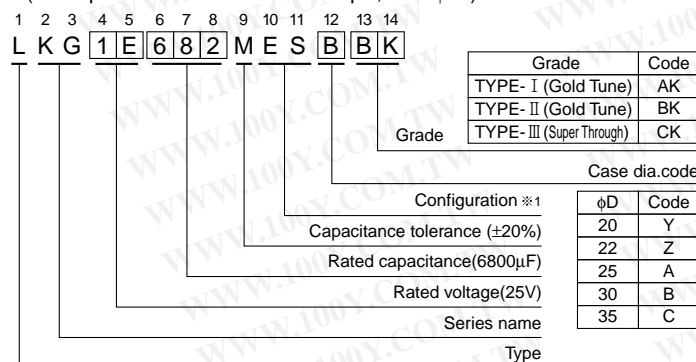


Specifications

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, Temperature : 20°C	
	TYPE	TYPE- I , TYPE- II
Stability at Low Temperature	Measurement frequency : 120Hz	
	Rated voltage(V)	16 to 100
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	tan δ
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	

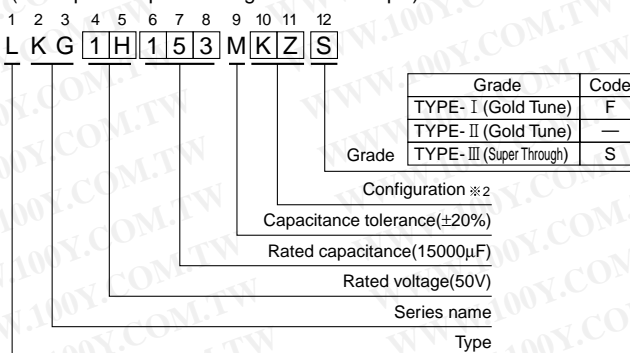
Type numbering system (Snap-in terminal type)

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



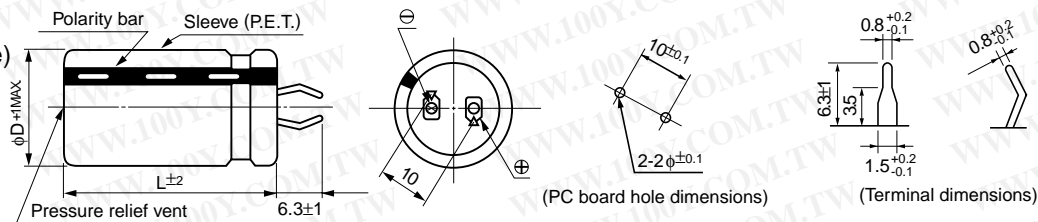
Type numbering system (Lug terminal type)

(Example : Super Through 50 V 15000μF)

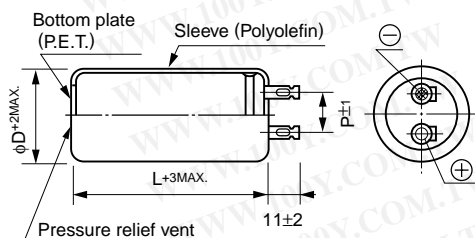


※ 1 Configuration
Pb-free terminal
Pb-free PET sleeve
ES

(Snap-in terminal type)

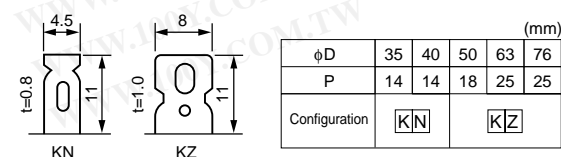


(Lug terminal type)



Configuration

φ 35 to φ 40 φ 50 to φ 76



● Dimension table in next page.

ALUMINUM ELECTROLYTIC CAPACITORS



■Dimensions (Snap-in Terminal Type : Gold Tune, Super Through)

Cap.(μF)	Code	Grade	63V (1J)					80V (1K)					100V (2A)				
			φ20	φ22	φ25	φ30	φ35	φ20	φ22	φ25	φ30	φ35	φ20	φ22	φ25	φ30	φ35
680	681	TYPE- I											20×30 1.70	22×25 1.75			
		TYPE- II											20×40 2.15	22×35 2.15	25×30 2.10		
		TYPE- III	20×30 1.75	22×25 1.75		30×20 1.90		20×45 2.10	22×35 2.25	25×30 2.15				22×45 2.65	25×35 2.70		
820	821	TYPE- I		22×20 1.30				20×25 1.70	22×30 2.05	25×20 1.65			20×35 1.85	22×30 1.85	25×25 1.80	30×20 1.90	
		TYPE- II	20×25 1.65		25×20 1.65		20×35 2.05	22×30 2.05	25×25 2.00	30×20 2.05		20×45 2.40	22×40 2.40		30×25 2.35	35×20 2.45	
		TYPE- III	20×35 1.90	22×30 1.90	25×25 1.85		20×50 2.40	22×40 2.45	25×35 2.35	30×25 2.40	35×20 2.55		22×50 3.00	25×40 3.00	30×30 3.00	35×25 2.85	
1000	102	TYPE- I	20×25 1.45					20×30 1.80	22×25 1.85				20×40 2.05				
		TYPE- II	20×30 1.85	22×25 1.85				20×45 2.20	22×35 2.20	25×30 2.15		35×20 2.10		22×45 2.70	25×35 2.75		
		TYPE- III	20×40 2.10	22×35 2.05	25×30 2.00			22×50 2.60	25×40 2.60	30×30 2.60				25×50 3.10	30×35 3.00	35×30 3.05	
1200	122	TYPE- I			25×20 1.65			20×35 1.95	22×30 1.95	25×25 1.90			20×45 2.30	22×40 2.20	25×30 2.20	30×25 2.20	35×20 2.30
		TYPE- II	20×35 1.95	22×30 1.95	25×25 1.90	30×20 1.95		20×50 2.45	22×40 2.45	25×35 2.30	30×25 2.30		22×50 3.00	25×40 2.75	30×30 3.05	35×25 2.90	
		TYPE- III	20×45 2.35	22×40 2.25		30×25 2.20	35×20 2.30			25×45 2.85	30×35 2.80	35×25 2.95			30×40 3.60	35×35 3.30	
1500	152	TYPE- I	20×30 1.90	22×25 1.90				20×40 2.20	22×35 2.15	25×30 2.10			20×50 2.65	22×45 2.55	25×35 2.60		
		TYPE- II	20×40 2.15	22×35 2.15	25×30 2.10				22×50 2.60	25×40 2.65	30×30 2.65				25×50 3.20	30×35 3.40	35×30 3.20
		TYPE- III		22×45 2.60	25×35 2.65					25×50 3.30	30×40 3.20	35×30 3.25				30×50 3.90	35×40 3.75
1800	182	TYPE- I	20×35 2.05	22×30 2.00	25×25 2.00	30×20 2.05		20×45 2.45	22×40 2.35				20×50 2.85	22×45 2.85	25×40 2.85	30×30 2.90	35×25 2.75
		TYPE- II	20×45 2.35	22×40 2.35		30×25 2.35	35×20 2.45			25×45 2.85	30×35 2.85	35×25 3.00				30×40 3.70	35×35 3.40
		TYPE- III		22×50 2.90	25×40 2.90	30×30 2.90	35×25 2.75			30×45 3.55	35×35 3.50					35×45 4.15	
2200	222	TYPE- I	20×40 2.25	22×35 2.20	25×30 2.15	30×20 2.10		22×45 2.70	25×35 2.75	30×30 2.55				25×45 3.20	30×35 3.20	35×30 3.00	35×25 3.00
		TYPE- II		22×45 2.70	25×35 2.75	30×30 2.50			25×50 3.25	30×40 3.15	35×30 3.25				30×50 3.95	35×40 3.80	35×30 3.80
		TYPE- III			25×45 3.25	30×35 3.20				30×50 4.05	35×40 3.90					35×50 4.75	
2700	272	TYPE- I	20×50 2.40	22×40 2.45	25×35 2.35	30×25 2.50				30×35 2.80	35×25 3.00				30×40 3.55	35×35 3.25	35×30 3.25
		TYPE- II			25×45 2.80	30×35 2.75	35×25 2.95			30×45 3.60	35×35 3.55					35×45 4.30	
		TYPE- III				30×45 3.30	35×30 3.65				35×45 4.45						
3300	332	TYPE- I		22×45 2.80	25×40 2.60	30×30 2.70				25×50 3.25	30×40 3.15	35×30 3.20			30×50 3.75		
		TYPE- II			25×50 3.20	30×40 3.20	35×30 3.15			30×50 4.10	35×40 3.95					35×50 4.95	
		TYPE- III				30×50 3.80	35×35 4.00				35×50 5.05						
3900	392	TYPE- I			25×45 2.85	30×35 2.85	35×25 3.00				30×45 3.45	35×35 3.40				35×40 4.30	
		TYPE- II				30×45 3.35	35×35 3.35				35×45 4.35						
		TYPE- III					35×40 4.30										
4700	472	TYPE- I			25×50 3.20	30×40 3.10	35×30 3.20					30×45 3.85	35×40 3.75				35×50 4.50
		TYPE- II				30×50 3.80						35×50 4.85					
		TYPE- III					35×50 4.50										
5600	562	TYPE- I				30×45 3.45	35×35 3.40					35×45 4.10					
		TYPE- II					35×40 4.35										
6800	682	TYPE- I				30×50 3.90	35×40 3.75					35×50 4.65					
		TYPE- II					35×50 4.60										
8200	822	TYPE- I					35×45 4.20										
10000	103	TYPE- I					35×50 4.80										Case size φD × L (mm) Rated ripple

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

■Dimensions (Lug Terminal Type : Gold Tune, Super Through)

Cap.(F)	Code	Grade	50 (1H)		63 (1J)		80 (1K)		100 (2A)		
6800	682	TYPE- I							40×68	5.1	
		TYPE- II				35×68	4.3	40×100	6.1	50×80	6.2
		TYPE- III		40×80	5.5	40×100	6.1	50×80	6.7	50×100	7.3
10000	103	TYPE- I						40×68	5.4	40×100	6.0
		TYPE- II		35×80	4.6	40×80	4.9	50×80	6.2	50×100	6.9
		TYPE- III		40×100	6.1	50×80	6.2	63×80	7.6	63×100	8.3
15000	153	TYPE- I						40×68	5.6	40×100	7.4
		TYPE- II		40×80	6.1	40×100	6.7	50×100	8.4	63×80	8.7
		TYPE- III		50×100	8.4	63×80	8.7	63×100	10.1	76×100	11.3
22000	223	TYPE- I		40×68	5.4	40×100	6.6	50×100	7.8	63×80	9.7
		TYPE- II		50×80	8.3	50×100	9.1	63×100	11.6	76×100	12.9
		TYPE- III		63×80	10.5	63×100	11.6	76×100	13.7	Case size φD × L (mm) Rated ripple	

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