

GK_{HH} series

105°C PC Board Mounting Type

Anti-Solvent
Feature
(Through 100V only)

- Higher C/V products.
- Plentiful line-up from $\phi 35 \times 63$ to $\phi 40 \times 100$ mm.
- Auxiliary terminals provided to assure anti-vibration performance.
- Adapted to the RoHS directive (2002/95/EC).

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

GK_{HH}

High C/V GU

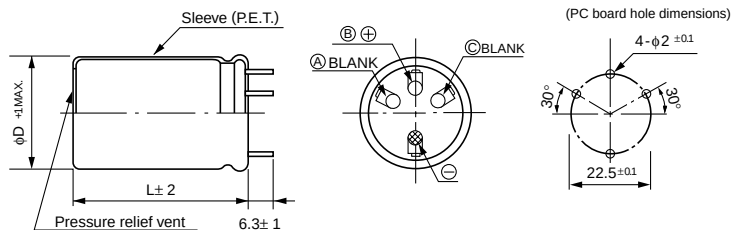
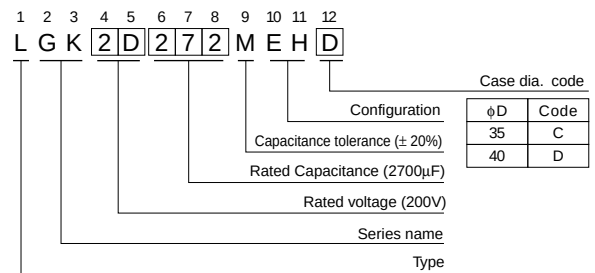


■ Specifications

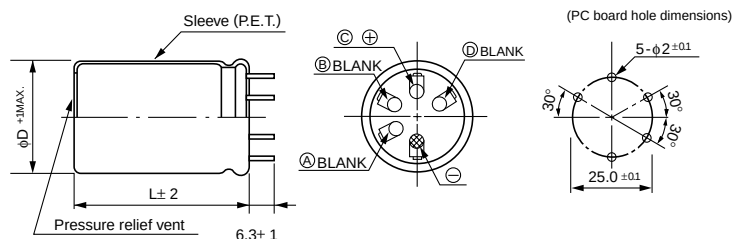
Item	Performance Characteristics											
Category Temperature Range	- 40 to +105°C (16 to 250V) , - 25 to +105°C (400V)											
Rated Voltage Range	16 to 400V											
Rated Capacitance Range	560 to 68000μF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	I ≤ 3√CV (μA) (After 5 minutes' application of rated voltage) [C : Rated Capacitance (μF) V : Voltage (V)]											
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz, Temperature : 20°C											
	Rated voltage(V)	16	25	35	50	63	80	100	160	200	250	400
	tan δ (MAX.)	0.60	0.50	0.40	0.35	0.30	0.30	0.25	0.20	0.15	0.15	0.30
Stability at Low Temperature	Measurement frequency : 120Hz											
	Rated voltage(V)			16 to 250			400					
	Impedance ratio	Z-25°C/Z+20°C			4			8				
	ZT/Z20 (MAX.)	Z-40°C/Z+20°C			15			—				
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 2000 hours at 105°C, the peak voltage shall not exceed the rated voltage.						Capacitance change		Within ±20% of initial value			
							tan δ		200% or less of initial specified value			
							Leakage current		Less than or equal to the initial specified value			
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the requirements listed at right.						Capacitance change		Within ±15% of initial value			
							tan δ		150% or less of initial specified value			
							Leakage current		Less than or equal to the initial specified value			
Marking	Printed with white color letter on black sleeve.											

■ Drawing

- For all of $\phi 35$ mm products and for 63mmL or shorter with $\phi 40$ mm.

Type numbering system (Example : 200V 2700 μ F)

- For 63mmL or longer with $\phi 40$ mm.



Notes:

As blank terminals are not insulated from capacitor element, they shall be mounted on independent lands.

• Frequency coefficient of rated ripple current

Frequency (Hz)		50	60	120	1 k	10k or more
Coeff.	16 to 100V	0.88	0.90	1.00	1.15	1.15
	160 to 250V	0.85	0.88	1.00	1.15	1.20
	400V	0.88	0.90	1.00	1.10	1.15

Minimum order quantity : 50pcs.

- Dimension table in next page.

■Dimensions

Cap.(μF) Code		V(Code) eD	16V (1C)		25V (1E)		35V (1V)		50V (1H)	
		35	40	35	40	35	40	35	40	
18000	183								35×68 5.55	40×63 5.80
22000	223						35×63 5.10	40×50 5.00	35×80 6.35	40×63 6.15
27000	273						35×68 5.50	40×63 5.80		
33000	333				35×63 5.60	40×50 5.50	35×80 6.25	40×63 6.05		
39000	393				35×68 6.00	40×63 6.30				
47000	473		35×63 5.90	40×50 5.75	35×80 6.80	40×63 6.60				
56000	563		35×68 6.20	40×63 6.45						
68000	683		35×80 6.90	40×63 6.70						

V(Code) Cap. (μF) Code φD		63V (1J)		80V (1K)		100V (2A)	
		35	40	35	40	35	40
5600	562					35 × 68 4.40	40 × 63 4.55
6800	682					35 × 80 4.80	40 × 63 4.65
8200	822			35 × 63 4.75	40 × 50 4.65		
10000	103			35 × 80 5.45	40 × 63 5.00		
12000	123	35 × 63 5.35	40 × 50 5.25				
15000	153	35 × 68 5.85	40 × 63 6.10				

V(Code) Cap.(μF) Code φD		160V (2C)		200V (2D)		250V (2E)		400V (2G)	
		35	40	35	40	35	40	35	40
560	561							35×63 1.75	40×50 1.70
680	681							35×80 2.05	40×63 2.00
820	821							35×80 2.20	
1000	102							35×100 2.65	40×80 2.60
1200	122					35×63 2.75	40×50 2.70		40×100 3.00
1500	152					35×68 3.20	40×63 3.35		
1800	182			35×63 3.30	40×50 3.20	35×100 4.05	40×80 3.95		
2200	222	35×63 3.50	40×50 3.45	35×80 3.90	40×63 3.80	35×100 4.35	40×80 4.20		
2700	272	35×68 3.90	40×63 4.10	35×100 4.65	40×80 4.50		40×100 5.00		
3300	332	35×80 4.55	40×63 4.40		40×80 4.90				
3900	392	35×100 5.30	40×80 5.20		40×100 5.70				
4700	472		40×100 6.15					Case size φ D × L (mm) Rated ripple	

Rated Ripple (Arms) at 105°C 120Hz

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Nichicon:

<u>LGK1C473MEHC</u>	<u>LGK1C473MEHD</u>	<u>LGK1C563MEHC</u>	<u>LGK1C563MEHD</u>	<u>LGK1C683MEHC</u>	<u>LGK1C683MEHD</u>
<u>LGK1E333MEHC</u>	<u>LGK1E333MEHD</u>	<u>LGK1E393MEHC</u>	<u>LGK1E393MEHD</u>	<u>LGK1E473MEHC</u>	<u>LGK1E473MEHD</u>
<u>LGK1H183MEHC</u>	<u>LGK1H183MEHD</u>	<u>LGK1H223MEHC</u>	<u>LGK1H223MEHD</u>	<u>LGK1J123MEHC</u>	<u>LGK1J123MEHD</u>
<u>LGK1J153MEHC</u>	<u>LGK1J153MEHD</u>	<u>LGK1K103MEHC</u>	<u>LGK1K103MEHD</u>	<u>LGK1K822MEHC</u>	<u>LGK1K822MEHD</u>
<u>LGK1V223MEHC</u>	<u>LGK1V223MEHD</u>	<u>LGK1V273MEHC</u>	<u>LGK1V273MEHD</u>	<u>LGK1V333MEHC</u>	<u>LGK1V333MEHD</u>
<u>LGK2A562MEHC</u>	<u>LGK2A562MEHD</u>	<u>LGK2A682MEHC</u>	<u>LGK2A682MEHD</u>	<u>LGK2C222MEHC</u>	<u>LGK2C222MEHD</u>
<u>LGK2C272MEHC</u>	<u>LGK2C332MEHC</u>	<u>LGK2C332MEHD</u>	<u>LGK2C392MEHC</u>	<u>LGK2C392MEHD</u>	<u>LGK2C472MEHD</u>
<u>LGK2D182MEHC</u>	<u>LGK2D182MEHD</u>	<u>LGK2D222MEHC</u>	<u>LGK2D222MEHD</u>	<u>LGK2D272MEHC</u>	<u>LGK2D272MEHD</u>
<u>LGK2D332MEHD</u>	<u>LGK2D392MEHD</u>	<u>LGK2E122MEHC</u>	<u>LGK2E122MEHD</u>	<u>LGK2E152MEHC</u>	<u>LGK2E152MEHD</u>
<u>LGK2E182MEHC</u>	<u>LGK2E182MEHD</u>	<u>LGK2E222MEHC</u>	<u>LGK2E222MEHD</u>	<u>LGK2E272MEHD</u>	<u>LGK2G102MEHC</u>
<u>LGK2G102MEHD</u>	<u>LGK2G122MEHD</u>	<u>LGK2G561MEHC</u>	<u>LGK2G561MEHD</u>	<u>LGK2G681MEHC</u>	<u>LGK2G681MEHD</u>
<u>LGK2G821MEHC</u>	<u>LGK2E152MHHD</u>	<u>LGK1K103MHHC</u>			