

# ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

**KG**

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



For Audio Use

- 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 (2011/65/EU).

Super Through

High Grade

Gold Tune

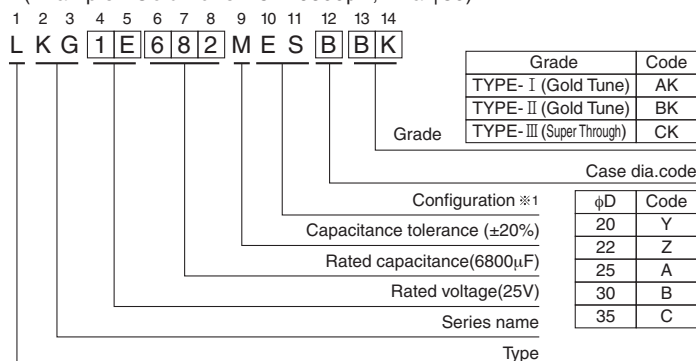


## Specifications

| 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                                         | Measurement frequency : 120Hz                |          |                                       |
|                               | Impedance ratio ZT/Z20(MAX.)                                                                                                                                                                                                           |                    | Z - 25°C/Z+20°C | 4                                                 |                                              |          |                                       |
|                               |                                                                                                                                                                                                                                        |                    | Z - 40°C/Z+20°C | 12                                                |                                              |          |                                       |
| 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)

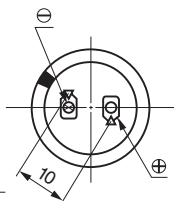
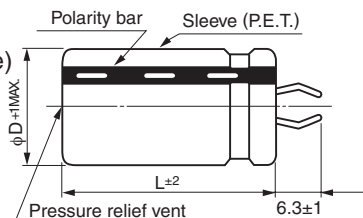
(Example : Gold Tune 25 V 6800μF, Dia.φ30)



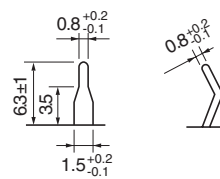
※1 Configuration

|                    |
|--------------------|
| Pb-free terminal   |
| Pb-free PET sleeve |
| ES                 |

(Snap-in terminal type)

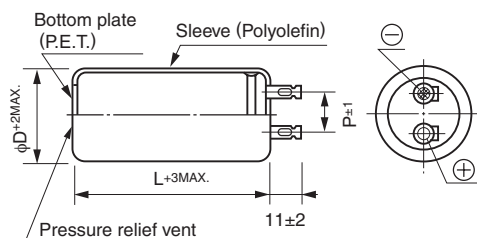


(PC board hole dimensions)



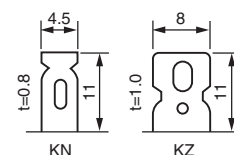
(Terminal dimensions)

(Lug terminal type)



## Configuration ※2

φ35 to φ40 φ50 to φ76



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

- Dimension table in next page.

CAT.8100D



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

| 16V(1C)      |                    |                        |       |                |
|--------------|--------------------|------------------------|-------|----------------|
| Cap.<br>(μF) | Size<br>φD × L(mm) | Rated ripple<br>(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.<br>(μF) | Size<br>φD × L(mm) | Rated ripple<br>(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.<br>(μF) | Size<br>φD × L(mm) | Rated ripple<br>(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.<br>(μF) | Size<br>φD × L(mm) | Rated ripple<br>(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 |
| 4700         | 35 × 20            | 2.45                   | 0.30  | LKG1H392MESCAK |
|              | 20 × 50            | 2.75                   | 0.30  | LKG1H472MESYAK |
|              | 22 × 45            | 2.60                   | 0.30  | LKG1H472MESZAK |
| 5600         | 25 × 35            | 2.70                   | 0.30  | LKG1H472MESAAK |
|              | 22 × 50            | 2.90                   | 0.30  | LKG1H562MESZAK |
|              | 25 × 40            | 2.90                   | 0.30  | LKG1H562MESAAK |
|              | 30 × 30            | 3.00                   | 0.30  | LKG1H562MESBAK |
| 6800         | 35 × 25            | 2.85                   | 0.30  | LKG1H562MESCAK |
|              | 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

CAT.8100D



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

| 63V(1J)      |                    |                        |       |                |
|--------------|--------------------|------------------------|-------|----------------|
| Cap.<br>(μF) | Size<br>φD × L(mm) | Rated ripple<br>(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 |
|              | 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.<br>(μF) | Size<br>φD × L(mm) | Rated ripple<br>(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 |
|              | 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.<br>(μF) | Size<br>φD × L(mm) | Rated ripple<br>(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



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

| 16V(1C)      |                    |                        |       |                |
|--------------|--------------------|------------------------|-------|----------------|
| Cap.<br>(μF) | Size<br>φD × L(mm) | Rated ripple<br>(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.<br>(μF) | Size<br>φD × L(mm) | Rated ripple<br>(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.<br>(μF) | Size<br>φD × L(mm) | Rated ripple<br>(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.<br>(μF) | Size<br>φD × L(mm) | Rated ripple<br>(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

CAT.8100D



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

| 63V(1J)      |                    |                        |       |                |
|--------------|--------------------|------------------------|-------|----------------|
| Cap.<br>(μF) | Size<br>φD × L(mm) | Rated ripple<br>(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.<br>(μF) | Size<br>φD × L(mm) | Rated ripple<br>(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.<br>(μF) | Size<br>φD × L(mm) | Rated ripple<br>(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



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

| 16V(1C)      |                    |                        |       |                |
|--------------|--------------------|------------------------|-------|----------------|
| Cap.<br>(μF) | Size<br>φD × L(mm) | Rated ripple<br>(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  | LKG1C332MESCK  |
| 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  | LKG1C472MESCK  |
| 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  | LKG1C682MESCK  |
| 8200         | 30 × 45            | 3.35                   | 0.25  | LKG1C822MESBCK |
|              | 35 × 35            | 3.30                   | 0.25  | LKG1C822MESCK  |
| 10000        | 35 × 40            | 3.50                   | 0.25  | LKG1C103MESCK  |
| 12000        | 35 × 45            | 3.70                   | 0.25  | LKG1C123MESCK  |

| 25V(1E)      |                    |                        |       |                |
|--------------|--------------------|------------------------|-------|----------------|
| Cap.<br>(μF) | Size<br>φD × L(mm) | Rated ripple<br>(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 |
| 2700         | 35 × 20            | 1.75                   | 0.22  | LKG1E222MESCK  |
|              | 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  | LKG1E332MESCK  |
| 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  | LKG1E472MESCK  |
| 5600         | 30 × 45            | 3.50                   | 0.22  | LKG1E562MESBCK |
|              | 35 × 35            | 3.50                   | 0.22  | LKG1E562MESCK  |
| 6800         | 35 × 40            | 3.80                   | 0.22  | LKG1E682MESCK  |
| 8200         | 35 × 45            | 4.00                   | 0.22  | LKG1E822MESCK  |

| 35V(1V)      |                    |                        |       |                |
|--------------|--------------------|------------------------|-------|----------------|
| Cap.<br>(μF) | Size<br>φD × L(mm) | Rated ripple<br>(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  | LKG1V182MESCK  |
| 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  | LKG1V272MESCK  |
| 3300         | 25 × 50            | 2.70                   | 0.22  | LKG1V332MESACK |
|              | 30 × 40            | 2.70                   | 0.22  | LKG1V332MESBCK |
|              | 35 × 30            | 2.65                   | 0.22  | LKG1V332MESCK  |
| 3900         | 30 × 45            | 3.00                   | 0.22  | LKG1V392MESBCK |
|              | 35 × 35            | 3.00                   | 0.22  | LKG1V392MESCK  |
| 4700         | 30 × 50            | 3.55                   | 0.22  | LKG1V472MESBCK |
|              | 35 × 40            | 3.55                   | 0.22  | LKG1V472MESCK  |
| 5600         | 35 × 45            | 3.80                   | 0.22  | LKG1V562MESCK  |
| 6800         | 35 × 50            | 4.15                   | 0.22  | LKG1V682MESCK  |

| 50V(1H)      |                    |                        |       |                |
|--------------|--------------------|------------------------|-------|----------------|
| Cap.<br>(μF) | Size<br>φD × L(mm) | Rated ripple<br>(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  | LKG1H122MESCK  |
| 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  | LKG1H182MESCK  |
| 2200         | 25 × 50            | 2.65                   | 0.22  | LKG1H222MESACK |
|              | 30 × 35            | 2.60                   | 0.22  | LKG1H222MESBCK |
|              | 35 × 30            | 2.60                   | 0.22  | LKG1H222MESCK  |
| 2700         | 30 × 45            | 3.00                   | 0.22  | LKG1H272MESBCK |
|              | 35 × 35            | 2.95                   | 0.22  | LKG1H272MESCK  |
| 3300         | 30 × 50            | 3.30                   | 0.22  | LKG1H332MESBCK |
|              | 35 × 40            | 3.25                   | 0.22  | LKG1H332MESCK  |
| 3900         | 35 × 45            | 3.50                   | 0.22  | LKG1H392MESCK  |
| 4700         | 35 × 50            | 3.90                   | 0.22  | LKG1H472MESCK  |

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



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

| 63V(1J)            |                                 |                        |               |                |
|--------------------|---------------------------------|------------------------|---------------|----------------|
| Cap.<br>( $\mu$ F) | Size<br>$\phi$ D $\times$ L(mm) | Rated ripple<br>(Arms) | $\tan \delta$ | Code           |
| 680                | 20 $\times$ 30                  | 1.75                   | 0.22          | LKG1J681MESYCK |
|                    | 22 $\times$ 25                  | 1.75                   | 0.22          | LKG1J681MESZCK |
|                    | 30 $\times$ 20                  | 1.90                   | 0.22          | LKG1J681MESBCK |
| 820                | 20 $\times$ 35                  | 1.90                   | 0.22          | LKG1J821MESYCK |
|                    | 22 $\times$ 30                  | 1.90                   | 0.22          | LKG1J821MESZCK |
|                    | 25 $\times$ 25                  | 1.85                   | 0.22          | LKG1J821MESACK |
| 1000               | 20 $\times$ 40                  | 2.10                   | 0.22          | LKG1J102MESYCK |
|                    | 22 $\times$ 35                  | 2.05                   | 0.22          | LKG1J102MESZCK |
|                    | 25 $\times$ 30                  | 2.00                   | 0.22          | LKG1J102MESACK |
| 1200               | 20 $\times$ 45                  | 2.35                   | 0.22          | LKG1J122MESYCK |
|                    | 22 $\times$ 40                  | 2.25                   | 0.22          | LKG1J122MESZCK |
|                    | 30 $\times$ 25                  | 2.20                   | 0.22          | LKG1J122MESBCK |
|                    | 35 $\times$ 20                  | 2.30                   | 0.22          | LKG1J122MESACK |
| 1500               | 22 $\times$ 45                  | 2.60                   | 0.22          | LKG1J152MESZCK |
|                    | 25 $\times$ 35                  | 2.65                   | 0.22          | LKG1J152MESACK |
| 1800               | 22 $\times$ 50                  | 2.90                   | 0.22          | LKG1J182MESZCK |
|                    | 25 $\times$ 40                  | 2.90                   | 0.22          | LKG1J182MESACK |
|                    | 30 $\times$ 30                  | 2.90                   | 0.22          | LKG1J182MESBCK |
|                    | 35 $\times$ 25                  | 2.75                   | 0.22          | LKG1J182MESACK |
| 2200               | 25 $\times$ 45                  | 3.25                   | 0.22          | LKG1J222MESACK |
|                    | 30 $\times$ 35                  | 3.20                   | 0.22          | LKG1J222MESBCK |
| 2700               | 30 $\times$ 45                  | 3.30                   | 0.22          | LKG1J272MESBCK |
|                    | 35 $\times$ 30                  | 3.65                   | 0.22          | LKG1J272MESACK |
| 3300               | 30 $\times$ 50                  | 3.80                   | 0.22          | LKG1J332MESBCK |
|                    | 35 $\times$ 35                  | 4.00                   | 0.22          | LKG1J332MESACK |
| 3900               | 35 $\times$ 40                  | 4.30                   | 0.22          | LKG1J392MESACK |
| 4700               | 35 $\times$ 50                  | 4.50                   | 0.22          | LKG1J472MESACK |

| 80V(1K)            |                                 |                        |               |                |
|--------------------|---------------------------------|------------------------|---------------|----------------|
| Cap.<br>( $\mu$ F) | Size<br>$\phi$ D $\times$ L(mm) | Rated ripple<br>(Arms) | $\tan \delta$ | Code           |
| 680                | 20 $\times$ 45                  | 2.10                   | 0.20          | LKG1K681MESYCK |
|                    | 22 $\times$ 35                  | 2.25                   | 0.20          | LKG1K681MESZCK |
|                    | 25 $\times$ 30                  | 2.15                   | 0.20          | LKG1K681MESACK |
| 820                | 20 $\times$ 50                  | 2.40                   | 0.20          | LKG1K821MESYCK |
|                    | 22 $\times$ 40                  | 2.45                   | 0.20          | LKG1K821MESZCK |
|                    | 25 $\times$ 35                  | 2.35                   | 0.20          | LKG1K821MESACK |
|                    | 30 $\times$ 25                  | 2.40                   | 0.20          | LKG1K821MESBCK |
|                    | 35 $\times$ 20                  | 2.55                   | 0.20          | LKG1K821MESACK |
| 1000               | 22 $\times$ 50                  | 2.60                   | 0.20          | LKG1K102MESZCK |
|                    | 25 $\times$ 40                  | 2.60                   | 0.20          | LKG1K102MESACK |
|                    | 30 $\times$ 30                  | 2.60                   | 0.20          | LKG1K102MESBCK |
| 1200               | 25 $\times$ 45                  | 2.85                   | 0.20          | LKG1K122MESACK |
|                    | 30 $\times$ 35                  | 2.80                   | 0.20          | LKG1K122MESBCK |
|                    | 35 $\times$ 25                  | 2.95                   | 0.20          | LKG1K122MESACK |
| 1500               | 25 $\times$ 50                  | 3.30                   | 0.20          | LKG1K152MESACK |
|                    | 30 $\times$ 40                  | 3.20                   | 0.20          | LKG1K152MESBCK |
|                    | 35 $\times$ 30                  | 3.25                   | 0.20          | LKG1K152MESACK |
| 1800               | 30 $\times$ 45                  | 3.55                   | 0.20          | LKG1K182MESBCK |
|                    | 35 $\times$ 35                  | 3.50                   | 0.20          | LKG1K182MESACK |
| 2200               | 30 $\times$ 50                  | 4.05                   | 0.20          | LKG1K222MESBCK |
|                    | 35 $\times$ 40                  | 3.90                   | 0.20          | LKG1K222MESACK |
| 2700               | 35 $\times$ 45                  | 4.45                   | 0.20          | LKG1K272MESACK |
| 3300               | 35 $\times$ 50                  | 5.05                   | 0.20          | LKG1K332MESACK |

| 100V(2A)           |                                 |                        |               |                |
|--------------------|---------------------------------|------------------------|---------------|----------------|
| Cap.<br>( $\mu$ F) | Size<br>$\phi$ D $\times$ L(mm) | Rated ripple<br>(Arms) | $\tan \delta$ | Code           |
| 680                | 22 $\times$ 45                  | 2.65                   | 0.20          | LKG2A681MESZCK |
|                    | 25 $\times$ 35                  | 2.70                   | 0.20          | LKG2A681MESACK |
| 820                | 22 $\times$ 50                  | 3.00                   | 0.20          | LKG2A821MESZCK |
|                    | 25 $\times$ 40                  | 3.00                   | 0.20          | LKG2A821MESACK |
|                    | 30 $\times$ 30                  | 3.00                   | 0.20          | LKG2A821MESBCK |
|                    | 35 $\times$ 25                  | 2.85                   | 0.20          | LKG2A821MESACK |
|                    | 25 $\times$ 50                  | 3.10                   | 0.20          | LKG2A102MESACK |
| 1000               | 30 $\times$ 35                  | 3.30                   | 0.20          | LKG2A102MESBCK |
|                    | 35 $\times$ 30                  | 3.05                   | 0.20          | LKG2A102MESACK |
|                    | 30 $\times$ 40                  | 3.60                   | 0.20          | LKG2A122MESBCK |
| 1200               | 35 $\times$ 35                  | 3.30                   | 0.20          | LKG2A122MESACK |
|                    | 30 $\times$ 50                  | 3.90                   | 0.20          | LKG2A152MESBCK |
| 1500               | 35 $\times$ 40                  | 3.75                   | 0.20          | LKG2A152MESACK |
|                    | 35 $\times$ 45                  | 4.15                   | 0.20          | LKG2A182MESACK |
| 2200               | 35 $\times$ 50                  | 4.75                   | 0.20          | LKG2A222MESACK |

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


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

| Rated Voltage<br>(V)(code) | Cap.<br>( $\mu$ F) | Size<br>$\phi$ D $\times$ L(mm) | Rated ripple<br>(Arms) | $\tan \delta$ | Code         |
|----------------------------|--------------------|---------------------------------|------------------------|---------------|--------------|
| 50V(1H)                    | 22000              | 40 $\times$ 68                  | 5.40                   | 0.30          | LKG1H223MKNF |
| 63V(1J)                    | 15000              | 40 $\times$ 68                  | 5.60                   | 0.30          | LKG1J153MKNF |
|                            | 22000              | 40 $\times$ 100                 | 6.60                   | 0.30          | LKG1J223MKNF |
| 80V(1K)                    | 10000              | 40 $\times$ 68                  | 5.40                   | 0.25          | LKG1K103MKNF |
|                            | 15000              | 40 $\times$ 100                 | 6.50                   | 0.25          | LKG1K153MKNF |
|                            | 22000              | 50 $\times$ 100                 | 7.80                   | 0.25          | LKG1K223MKZF |
| 100V(2A)                   | 6800               | 40 $\times$ 68                  | 5.10                   | 0.25          | LKG2A682MKNF |
|                            | 10000              | 40 $\times$ 100                 | 6.00                   | 0.25          | LKG2A103MKNF |
|                            | 15000              | 50 $\times$ 100                 | 7.40                   | 0.25          | LKG2A153MKZF |
|                            | 22000              | 63 $\times$ 80                  | 9.70                   | 0.25          | LKG2A223MKZF |

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

| Rated Voltage<br>(V)(code) | Cap.<br>( $\mu$ F) | Size<br>$\phi$ D $\times$ L(mm) | Rated ripple<br>(Arms) | $\tan \delta$ | Code        |
|----------------------------|--------------------|---------------------------------|------------------------|---------------|-------------|
| 50(1H)                     | 10000              | 35 $\times$ 80                  | 4.60                   | 0.30          | LKG1H103MKN |
|                            | 15000              | 40 $\times$ 80                  | 6.10                   | 0.30          | LKG1H153MKN |
|                            | 22000              | 50 $\times$ 80                  | 8.30                   | 0.30          | LKG1H223MKZ |
| 63(1J)                     | 6800               | 35 $\times$ 68                  | 4.30                   | 0.30          | LKG1J682MKN |
|                            | 10000              | 40 $\times$ 80                  | 4.90                   | 0.30          | LKG1J103MKN |
|                            | 15000              | 40 $\times$ 100                 | 6.70                   | 0.30          | LKG1J153MKN |
|                            | 22000              | 50 $\times$ 100                 | 9.10                   | 0.30          | LKG1J223MKZ |
| 80(1K)                     | 6800               | 40 $\times$ 100                 | 6.10                   | 0.25          | LKG1K682MKN |
|                            | 10000              | 50 $\times$ 80                  | 6.20                   | 0.25          | LKG1K103MKZ |
|                            | 15000              | 50 $\times$ 100                 | 8.40                   | 0.25          | LKG1K153MKZ |
|                            | 22000              | 63 $\times$ 100                 | 11.6                   | 0.25          | LKG1K223MKZ |
| 100(2A)                    | 6800               | 50 $\times$ 80                  | 6.20                   | 0.25          | LKG2A682MKZ |
|                            | 10000              | 50 $\times$ 100                 | 6.90                   | 0.25          | LKG2A103MKZ |
|                            | 15000              | 63 $\times$ 80                  | 8.70                   | 0.25          | LKG2A153MKZ |
|                            | 22000              | 76 $\times$ 100                 | 12.9                   | 0.25          | LKG2A223MKZ |

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

| Rated Voltage<br>(V)(code) | Cap.<br>( $\mu$ F) | Size<br>$\phi$ D $\times$ L(mm) | Rated ripple<br>(Arms) | $\tan \delta$ | Code         |
|----------------------------|--------------------|---------------------------------|------------------------|---------------|--------------|
| 50(1H)                     | 6800               | 40 $\times$ 80                  | 5.50                   | 0.22          | LKG1H682MKNS |
|                            | 10000              | 40 $\times$ 100                 | 6.10                   | 0.22          | LKG1H103MKNS |
|                            | 15000              | 50 $\times$ 100                 | 8.40                   | 0.22          | LKG1H153MKZS |
|                            | 22000              | 63 $\times$ 80                  | 10.5                   | 0.22          | LKG1H223MKZS |
| 63(1J)                     | 6800               | 40 $\times$ 100                 | 6.10                   | 0.22          | LKG1J682MKNS |
|                            | 10000              | 50 $\times$ 80                  | 6.20                   | 0.22          | LKG1J103MKZS |
|                            | 15000              | 63 $\times$ 80                  | 8.70                   | 0.22          | LKG1J153MKZS |
|                            | 22000              | 63 $\times$ 100                 | 11.6                   | 0.22          | LKG1J223MKZS |
| 80(1K)                     | 6800               | 50 $\times$ 80                  | 6.70                   | 0.20          | LKG1K682MKZS |
|                            | 10000              | 63 $\times$ 80                  | 7.60                   | 0.20          | LKG1K103MKZS |
|                            | 15000              | 63 $\times$ 100                 | 10.1                   | 0.20          | LKG1K153MKZS |
|                            | 22000              | 76 $\times$ 100                 | 13.7                   | 0.20          | LKG1K223MKZS |
| 100(2A)                    | 6800               | 50 $\times$ 100                 | 7.30                   | 0.20          | LKG2A682MKZS |
|                            | 10000              | 63 $\times$ 100                 | 8.30                   | 0.20          | LKG2A103MKZS |
|                            | 15000              | 76 $\times$ 100                 | 11.3                   | 0.20          | LKG2A153MKZS |

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

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[LKG1K152MESZBK](#) [LKG1K222MESABK](#) [LKG1K222MESBBK](#) [LKG1K222MESCBK](#) [LKG1K332MESBBK](#)  
[LKG1K332MESCBK](#) [LKG1K472MESCBK](#) [LKG1V103MESBBK](#) [LKG1V103MESCBK](#) [LKG1V123MESCBK](#)  
[LKG1V472MESBBK](#) [LKG1V472MESZBK](#) [LKG1V562MESABK](#) [LKG1V562MESCBK](#) [LKG1V562MESZBK](#)  
[LKG1V682MESABK](#) [LKG1V682MESBBK](#) [LKG1V682MESCBK](#) [LKG1V822MESBBK](#) [LKG1V822MESCBK](#)  
[LKG1J103MKZS](#) [LKG1H153MLZS](#) [LKG1H103MKNS](#) [LKG1C682MESABK](#) [LKG1E153MESA](#) [LKG1J392MESBAK](#)  
[LKG1K332MESCK](#) [LKG1V682MESZAK](#) [LKG2A272MESBAK](#) [LKG1V472MESBCK](#) [LKG2A102MESZBK](#)  
[LKG2A122MESZAK](#) [LKG2A681MESZBK](#) [LKG2A681MESACK](#) [LKG1C822MESZAK](#) [LKG1K821MESBCK](#)  
[LKG1V222MESZCK](#) [LKG1V272MESA](#) [LKG1V272MESABK](#) [LKG2A122MESCBK](#) [LKG1C153MESA](#)  
[LKG1E332MESZCK](#) [LKG1H682MESBAK](#) [LKG1J272MESYAK](#) [LKG2A182MESA](#) [LKG1E273MESCAK](#)  
[LKG1E332MESZAK](#) [LKG1K102MESACK](#) [LKG1K272MESBBK](#) [LKG1V332MESZBK](#) [LKG1V392MESYBK](#)  
[LKG2A821MESZAK](#) [LKG1C183MESA](#) [LKG1C272MESACK](#) [LKG1C273MESA](#) [LKG1C333MESCBK](#)  
[LKG1E123MESCBK](#) [LKG1J682MESCAK](#) [LKG1K182MESBAK](#) [LKG1K182MESCBK](#)