KA Series

RoHS2 conforming product | AEC-Q200 | High temperature 150°C | SMD

■ MAJOR USES

- Noise filter for power source and automotive electrical unit

■ FEATURES

- Low D.C. resistance due to the lead wire going through the core.
- Use of a Fe-base amorphous core for excellent operational stability at high temperatures.
- Surface-mount product for automotive.
- Significantly improved safety and reliability because layer short circuits will not occur and because the leakage magnetic flux is extremely small.

◆ GENERAL SPECIFICATIONS

Items	KA Series
Operating temperature range *1	-40 to 150°C

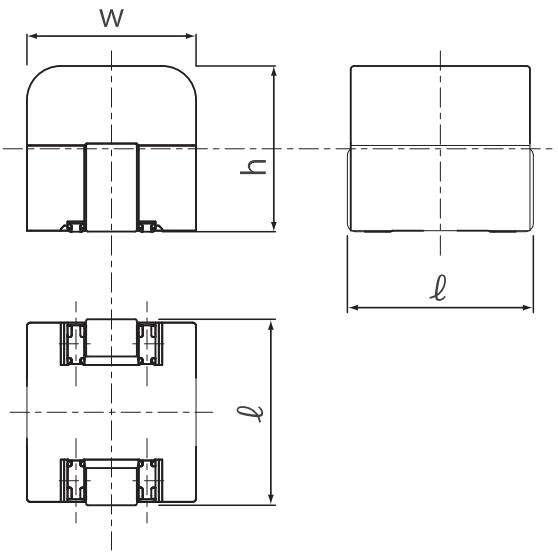
*1 Temperature on the coil surface including the temperature rise during installation.
Never use the coil at a temperature exceeding the rated temperature range.

◆ COIL STANDARD SPECIFICATIONS

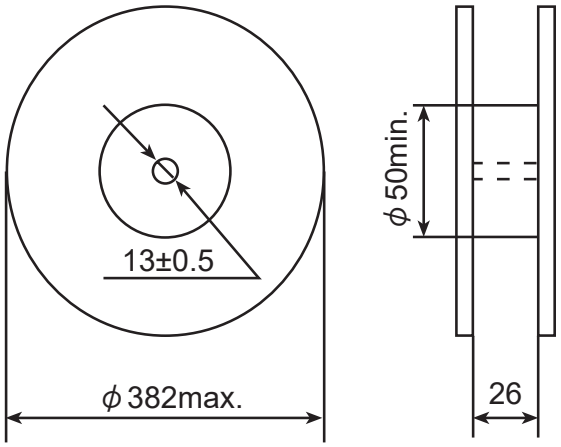
Coil Part No.	Rated Current A	Inductance (20 kHz)		Max. D.C.R. mΩ	Outside Dimensions		
		0[A] μH	Rating μH		ℓ mm	w mm	h mm
LKKA0200R5K1FF0E	20	0.70	0.50	0.78	11.0	10.5	10.3
LKKA0200R4K1DF0E	20	0.50	0.40	0.78	11.0	10.5	10.3
LKKA0300R3K1CF0E	30	0.40	0.30	0.78	11.0	10.5	10.3

* The inductance at current 0[A] indicates the reference value.
* Before using the product for automotive purposes, contact our sales representative for information about operating conditions, etc.
Note that the rated current refers to the current that flows under the rated inductance condition. Be sure to use the product below the maximum operating temperature.

◆ STANDARD DIMENSION DIAGRAM (mm)

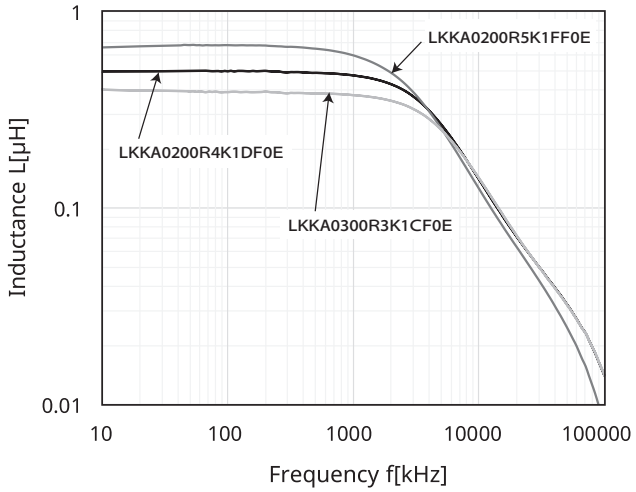


◆ REEL DIMENSIONS [mm]

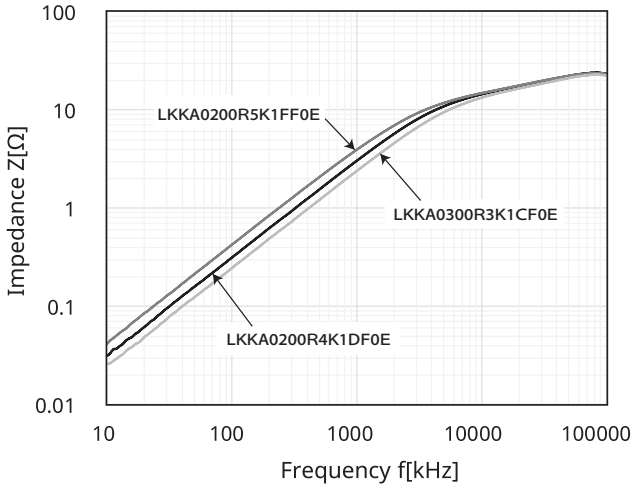


KA Series

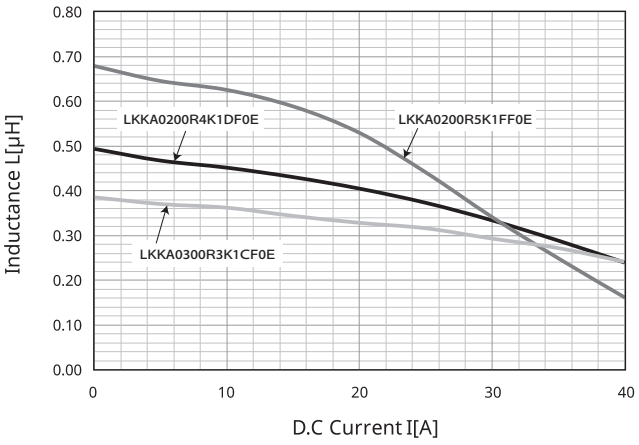
◆ FREQUENCY - INDUCTANCE CHARACTERISTICS



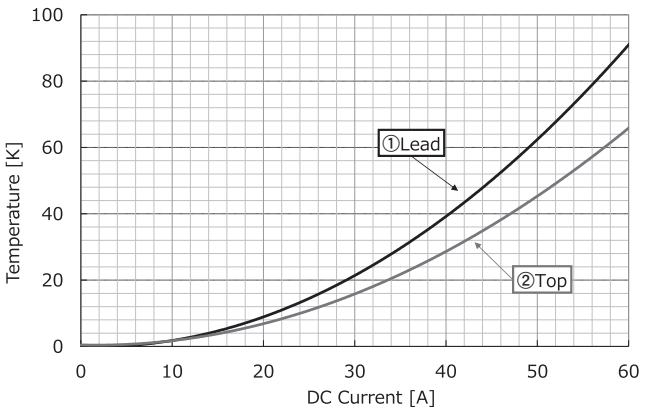
◆ FREQUENCY - IMPEDANCE CHARACTERISTICS



◆ D.C. BIAS CHARACTERISTICS



◆ SELF-HEATING TEMPERATURE CHARACTERISTICS



◆ PRODUCT OUTLINE DRAWING HEAT GENERATION MEASUREMENT POINTS

* These temperature characteristics are based on our measurement conditions. (Our measurement conditions: Room temperature approx. 23°C, windless, single unit without board.)
Common to the following three-part numbers: LKKA0200R5K1FF0E, LKKA0200R4K1DF0E, and LKKA0300R3K1CF0E.