KCA

Keylock cylinder antenna 38x49x21mm (30 uH - 1000 uH)

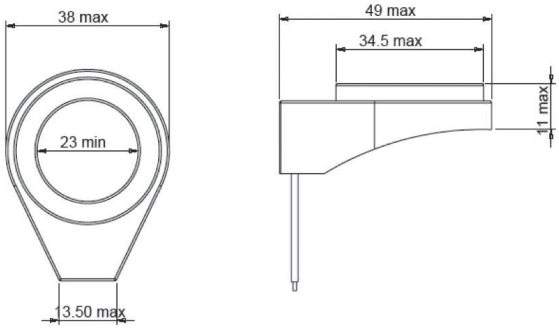
Characteristics

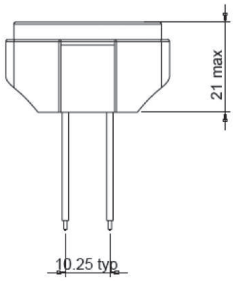


The Keylock Cylinder Antenna is designed to emit a RF signal and identify the customer's key in the ignition system. This antenna is to be placed in the Ignition Switch Lock Cylinder, inside the vehicle. Since it can be exposed to the final customer, the antenna finishing fulfils the highest quality requirements.
Overmoulded with PA66 or PBT-GF30% assuring the IP67 classification.
Output wires can be customized to customer's design. Inside the overmoulding, the inductance, resistance and quality factor can be customized to required values.

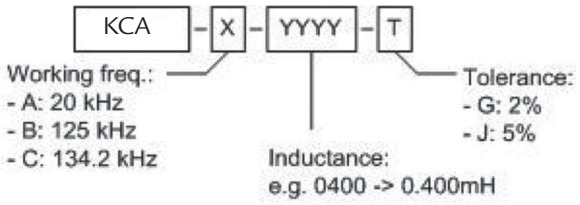
- LF transponder Emitter/Transmitter antenna.
- Ideally used in the Ignition Switch Key Cylinder.
- Free wire or special connectors can be provided.
- The enclosure will provide mounting features into the vehicle and will ensure the mechanical robustness.
- Custom L and R value under demand.

Mechanical dimensions





Nomenclature description



Electrical specifications

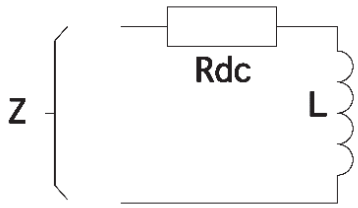
P/N	L (mH)	Q	Rdc (Ω)	SRF (MHz)	Freq. (kHz)
KCA-A-0930J	0.930	>5	7.2	>0.6	20@
KCA-A-1345J	1.345	>5	13.5	0.5	20@
KCA-B-0345J	0.345	>40	4.4	>0.8	125@
KCA-B-1080J	1.080	>50	7.8	>0.6	125@
KCA-C-0640J	0.640	>50	6	>0.6	134,2@
KCA-C-0940J	0.940	>50	7.3	>0.6	134,2@

This chart is a reference guide for the most common required values at working frequency of 20, 125 and 134 kHz. Any other inductance value at LF or tighter tolerances can be provided.

Please contact our sales department for any inquiry.

Sensitivity measured with Helmholtz coils H=8.36 Ap/m @125 kHz. Contact Tech. department. for measurement specification.

Electrical diagram



L: Ferrite core coil inductance
R: Copper resistance and connection
Z: External impedance