KGEA-BFCAM

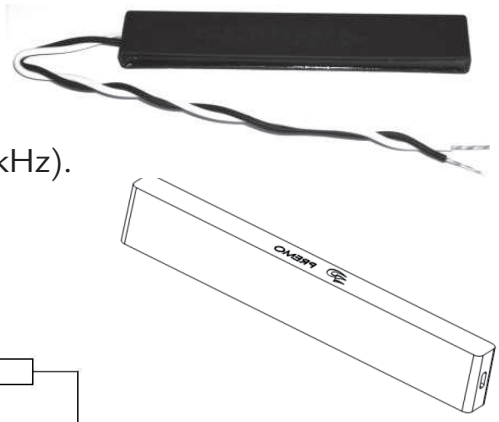
85x16.8x7 mm (33 µH – 500 µH)

Keyless Go Emitter Antenna Low Profile Potted Unsealed & Sealed Connector

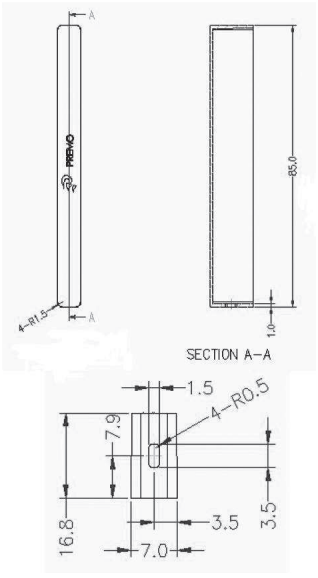
Characteristics

This is a new low profile antenna specially designed to assembly in the aftermarket operation.
Antenna concept is similar to those KGEA-BFC series, but smaller in size (ferrite + capacitor in a box potted) and easy to joint to anywhere by a simple adhesive tape.
These kind of antennas provide a cable with a customized length without connector in its standard version (connector can be assembly under demand).
Several combinations of inductance and capacitor values are offered as standard versions. Any other combination can be provided, together with the possibility of fully customized design, depending mainly of capacitor size available.
Ideally used access and start Hand Free subsystem for Passive Entry keyless Go System Requirements for automotive application.

- Low profile size.
- Low tolerances in the resonance frequency LC
- High stability in temperature (-40°C up to +85°C).
- Transmitting low frequency LF (20kHz, 125kHz and 134kHz).
- Long reading distances and average current 2-4App.
- Custom LCR value under demand.

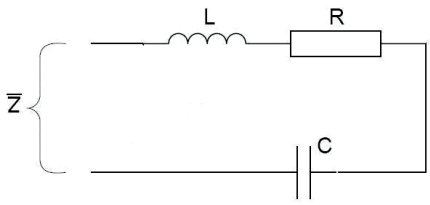


Mechanical dimensions



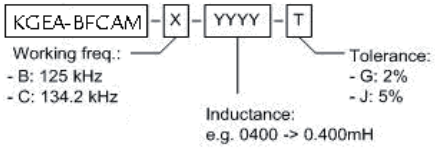
L> 20mm	tolerance ± 0.5mm
10< L ≤ 20mm	tolerance ± 0.2mm
L ≤ 10mm	tolerance ± 0.1mm

Schematic Diagram



L: Ferrite core coil inductance
R: Copper resistance and connection
C: Tunning internal capacitor NPO
Z: External impedance

Nomenclature description



Electrical specifications

P/N	L (mH)	Cres (nF)	Q	SRF (MHz)	Freq. (kHz)
KGEA-BFCAM-B-0345J	0.345	4.7	>115	>3	125@
KGEA-BFCAM-B-0500J	0.500	3.34.7	>115	>3	125@
KGEA-BFCAM-C-0207J	0.207	6.8	>100	>3	134,2@
KGEA-BFCAM-C-0426J	0.426	3.3	>100	>3	134,2@

The specification chart is a reference guide for the most common required values at working frequencies of 125 kHz, 20 kHz and 134.2 kHz. Any other inductance value at LF or tighter tolerances can be provided. Please contact our sales department for any inquiry.