



KGEA-BFCR

145x26x12mm (33 μH - 500 μH)

Emitter antenna housing plastic base with resing and outside connector unsealed & sealed

Features

The antenna KGEA-BFCR is designed for emission of a LF field to allow hands free access towards the Customer Device Identification for automotive application. This type antenna are inserted in the vehicle being integrated into the Access and Start Hand Free subsystem for requirements Passive Entry and Remote keyless Go System. Housing plastic base Polyamide (ABS optional) assuring extreme conditions of humidity, liquids, substance and extreme environments.



The connector is optional and it can be

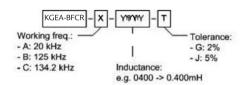
customized to required features. It can be sealed or unsealed with 2P, 3P,...,6P male or female and located outside the assembly of the antenna with 2 cables type CSA 105°C. Inside of the housing plastic base the serial inductance, capacitance and resistance can be customized to required values.

Designed to allow long emitting-reading distances in the smallest volume. Variety of mounting requirements and solutions which to incorporate features to accommodate different fastening anchors and mechanical robustness.

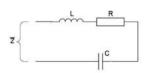
Characteristics

- Transmitting low frequency LF
- High stability in temperature (-40°C up to +85°C)
- Ideally used in keyless smart entry system.
- Connector located outside assembly housing plastic base.
- Low tolerances in the resonance frequency LC
- Long reading distances and average current 2-4App
- Strong anchor points which provide an easy assembly and will ensure mechanical robustness.
- Custom LCR value under demand

Nomenclature description



Electrical diagram



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

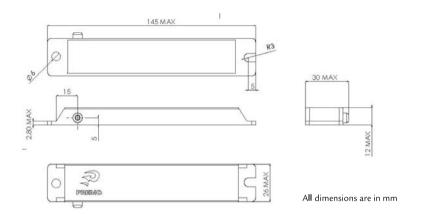


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145x26x12mm (33 µH - 500 µH)

Emitter antenna housing plastic base with resin and outside connector unsealed & sealed

Mechanical dimensions



Electrical specifications

Operating Frequency@125kHz

P/N	L (mH)	Cres (nF)	Q	SRF (MHz)
KGEA-BFCR-B-0033J	0.033	47,00	>75	>3
KGEA-BFCR-B-0108J	0.108	15,00	>110	>3
KGEA-BFCR-B-0162J	0.162	10,00	>125	>3
KGEA-BFCR-B-0240J	0.240	6,8	>125	>3
KGEA-BFCR-B-0345J	0.345	4,7	>125	>3
KGEA-BFCR-B-0500J	0.500	3.3	>125	>3

Operating Frequency@134,2kHz

P/N	L (mH)	Cres (nF)	Q	SRF (MHz)
KGEA-BFCR-C-0030J	0.030	47,00	>75	>3
KGEA-BFCR-C-0094J	0.094	15,00	>110	>3
KGEA-BFCR-C-0141J	0.141	10,00	>125	>3
KGEA-BFCR-C-0207J	0.207	6,8	>125	>3
KGEA-BFCR-C-0300J	0.300	4,7	>125	>3
KGEA-BFCR-C-0426J	0.426	3,3	>125	>3

Operating Frequency@20KHz

P/N	L (mH)	Cres (nF)	Q	SRF (MHz)
KGEA-BFCR-A-0161J	0.161	330	>60	>1
KGEA-BFCR-A-0422J	0.422	150	>65	>1
KGEA-BFCR-A-0634J	0.634	100	>70	>1

Add under the chart: This chart is a reference guide for the most common required values at working frequency of 125 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 App/m @125 kHz. Contact us for measurement specification.