KGEA-DH

Keyless go Emitter Antenna 138x24x11.5mm (33 uH - 470 uH)

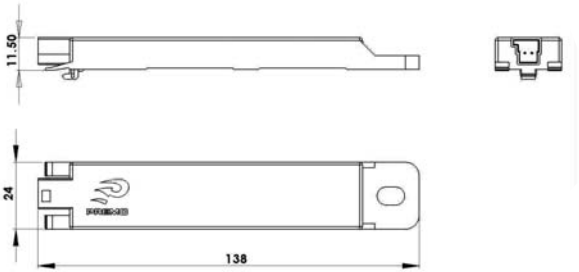
Features

Door handle designed antenna for emission of a LF field to allow hands free access towards the Customer Device Identification.
Overmoulded with PA66 (ABS optional) assuring the IP67 classification.
Inside the overmoulding the serial inductance, capacitance and resistance can be customized to required values.
Designed to allow long emitting-reading distances in the smallest volume.

Characteristics

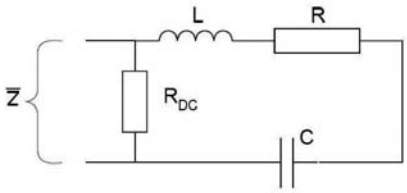
- Very low profile
- High stability in temperature (-40°C up to +90°C)
- Low tolerances in the resonance frequency LC
- Connector integrated in the enclosure.
- Long reading distances
- Strong anchor points which provide an easy assembly
- Custom LCR value under demand

Mechanical dimensions



All dimensions in mm

Electrical diagram



L: Ferrite core coil inductance
R: Copper resistance and connection
C: Tunning internal capacitor NPO
Rdc: Diagnostic parallel resistor (typical 10 kΩ)
Z: External impedance

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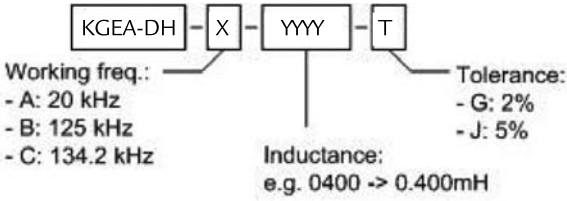
Nomenclature description



Electrical specifications

Operating Frequency @20kHz

P/N	L (mH)	Cres (nF)	Q	SRF (MHz)
KGEA-DH-A-0192J	0.192	330	>60	>1
KGEA-DH-A-0422J	0.422	150	>50	>1
KGEA-DH-A-0633J	0.633	100	>50	>1
KGEA-DH-A-0931J	0.931	68	>45	>1

Operating Frequency @125kHz

P/N	L (mH)	Cres (nF)	Q	SRF (MHz)
KGEA-DH-B-0033J	0.034	47	>100	>3
KGEA-DH-B-0108J	0.108	15	>90	>3
KGEA-DH-B-0238J	0.238	6.8	>90	>3
KGEA-DH-B-0345J	0.345	4.7	>80	>3
KGEA-DH-B-0490J	0.490	3.30	>80	>3

Operating Frequency @134.2kHz

P/N	L (mH)	Cres (nF)	Q	SRF (MHz)
KGEA-DH-C-0030J	0.030	47	>100	>3
KGEA-DH-C-0300J	0.300	4.7	>80	>3
KGEA-DH-C-0426J	0.426	3.3	>80	>3

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.