KGEA-SMD

Keyless go emitter antenna smd (33 µH - 500 µH)

Features

This emitter antenna is specifically designed for applications in which it is necessary to get a big read range with a minimum size on PCB in low frequency base stations (125KHz and 134.2KHz).

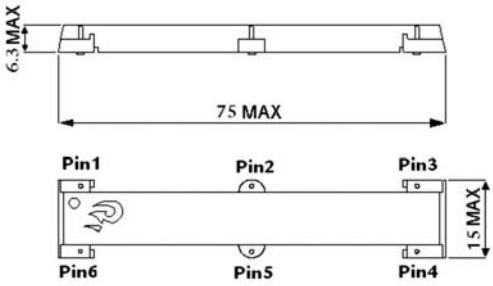
It is a perfect solution to be used in vehicles passive entry applications (PE, passive entry) or TPMS (Tyre Pressure Monitoring system.

It has 75mm x 15mm x 6.3mm for SMD assembly. The module antenna is formed only by ferrite core wound inside of a plastic housing and it filled with resin of polyurethane. Also this emitter antenna has the alternative or option to incorporate 2 types pins: through hole or SMD.

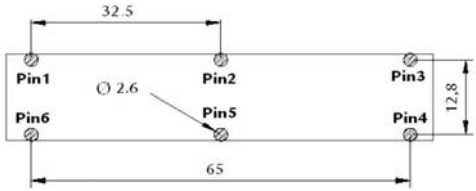
Characteristics

- The antenna can be design with different sizes (small, medium, big), and 2 types pins: through hole or SMD.
- High reading distance depending of the size ferrite core.
- Designed for a range of working frequency LF (20kHz, 125kHz and 134,2kHz).
- Antenna current. Max. 4 App, Duty 30%
- High stability in temperature (- 40°C to +125°C).
- Good cost/performance ratio.

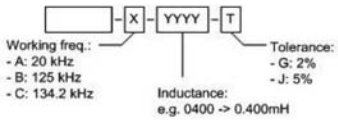
Dimensions and Pad layout:



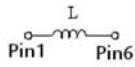
All dimensions are in mm



Nomenclature description



Electrical diagram



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Operating Frequency @ 125 kHz ;

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

Operating Frequency @ 134,2 kHz ;

P/N	L (mH)	Cres (nF)	Q	SRF (MHz)
KGEA-SMD-C-0030J	0.030	47,00	>75	>3
KGEA-SMD-C-0094J	0.094	15,00	>110	>3
KGEA-SMD-C-0141J	0.141	10,00	>125	>3
KGEA-SMD-C-0207J	0.207	6,8	>130	>3
KGEA-SMD-C-0300J	0.300	4,7	>130	>3
KGEA-SMD-C-0426J	0.426	3,3	>130	>3

Tolerance J=5%.
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.