

# KGEA-HB

**LF interior antenna shape h bridge**  
**116,75x20x23mm (100uH - 500uH)**  
 EMITTER ANTENNAS / SHORT RANGE



## FEATURES

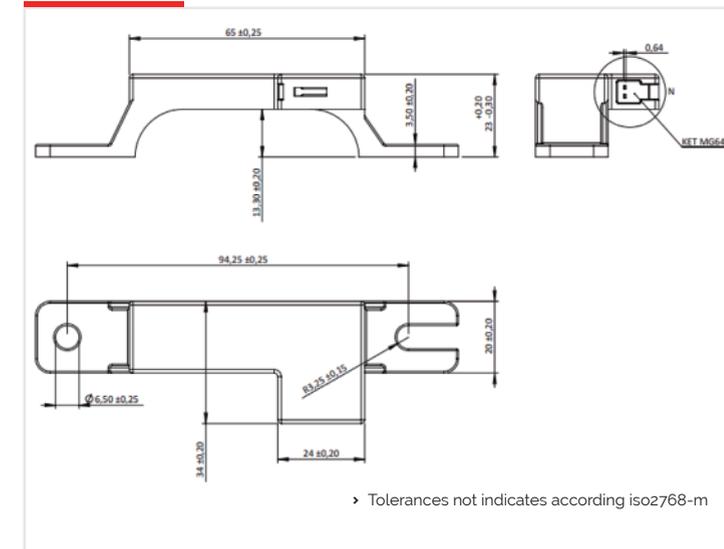
- › Transmitting low frequency.
- › LF emitter antenna assembly by external housing + LPM process.
- › The connector integrated in the external housing plastic.
- › Shape H bridge (best performance electrical on metal surfaces).
- › Strong anchor points which provide an easy assembly and will ensure mechanical robustness
- › IP56 grade waterproff.

## 01 ELECTRICAL PARAMETERS

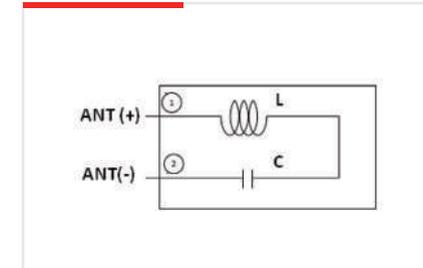
- › Resonant frequency LF (L+C in serial). Custom LC value under demand
- › Capacitor type SMD NPO/COG 630Vdc
- › Fine adjust the tank resonant frequency L+C. Max tolerance Vs fres: ± 2kHz @ [-40°C to 85°C].
- › Ipp max= 2 App
- › High stability in temperature (-40°C up to +85°C).
- › Reliability test: This part is according to AEC-Q200 Revision C.

## 02 SPECIFICATIONS

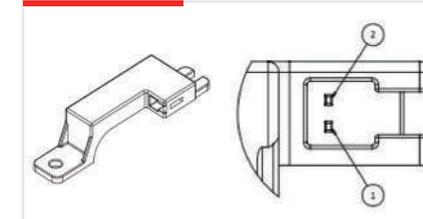
### DIMENSIONS (mm)



### SCHEMATIC DIAGRAM



### CONNECTOR PIN LAYOUT



**NOTE:** Using as referenced the nut model indicated below figure, we recommend screwing torque on anchor of the box of 8Nm maximum.

› **Measuring Equipment:** Tonichi DB25N Range: 3-25Nm. Accuracy:

› 3% S/N 329485D Ds: 0.5Nm

› **Materials used:**

- › Support: Aluminum sheet
- › Nut: M6 DIN 6923 galvanized
- › Screw: M6x20-25 DIN 6923 - 8.8



### ELECTRICAL SPECIFICATIONS

PART NUMBER	L Inductance ± 5%	C Capacitor ±5%	Freq. (kHz)	Zimp@fo (Ω)
<b>KGEA-HB-B-0240J</b>	240uH	6.8nF	125,0	< 1,5
<b>KGEA-HB-C-0205J</b>	205uH	6.8nF	134	<1,5

### Mechanical notes

1. All dimensions are in mm.
2. The external housing and cover is closed-sealed by ultrasonic welding.
3. Plastic Material PBT-GF30%.