

	Customer	Customer Code	Description KGEA-BFAM 192μH 5% 20kHz		
	Ordering Code	Prototype Ref. KGEA-BFAM-A-192J	Date 14/09/21	Edition 1	Page 1/7

PREMO S.L.  
Severo Ochoa 47 Parque Tecnológico de Andalucía  
29590 Campanillas, Málaga - Spain



**KGEA-BFAM-A-192J: KGEA-BFAM 192μH 5% 20kHz**

<b>Made by:</b> José Ramón Fdez	<b>Checked by:</b> Younes Akri	<b>Approved by:</b> Jonatan Muñoz
<b>Date:</b> 14/09/21	<b>Date:</b> 14/09/21	<b>Date:</b>
<b>Signature:</b> 	<b>Signature:</b>	<b>Signature:</b>

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## 1. Features

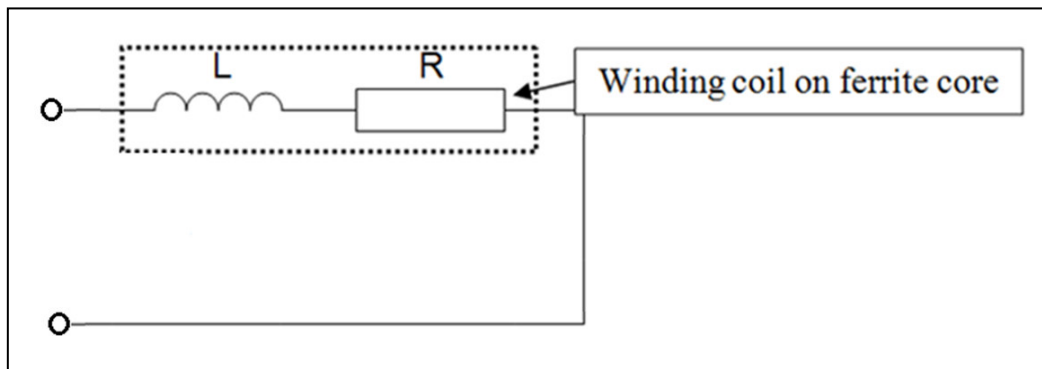
- LF Antenna
- Work frequency 20KHz
- Temperature from  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$
- Max current 1 Arms
- IP68 grade Waterproof
- The antenna belongs to class UL94-HB
- High mechanical requirements
- Optional Unsealed & Sealed connector

## 2. Applications

- Ideally used access and start Hand Free subsystem for Passive Entry Keyless Go System Requirements for automotive application..


## 3. Electrical diagram

Diagram of the antenna is:



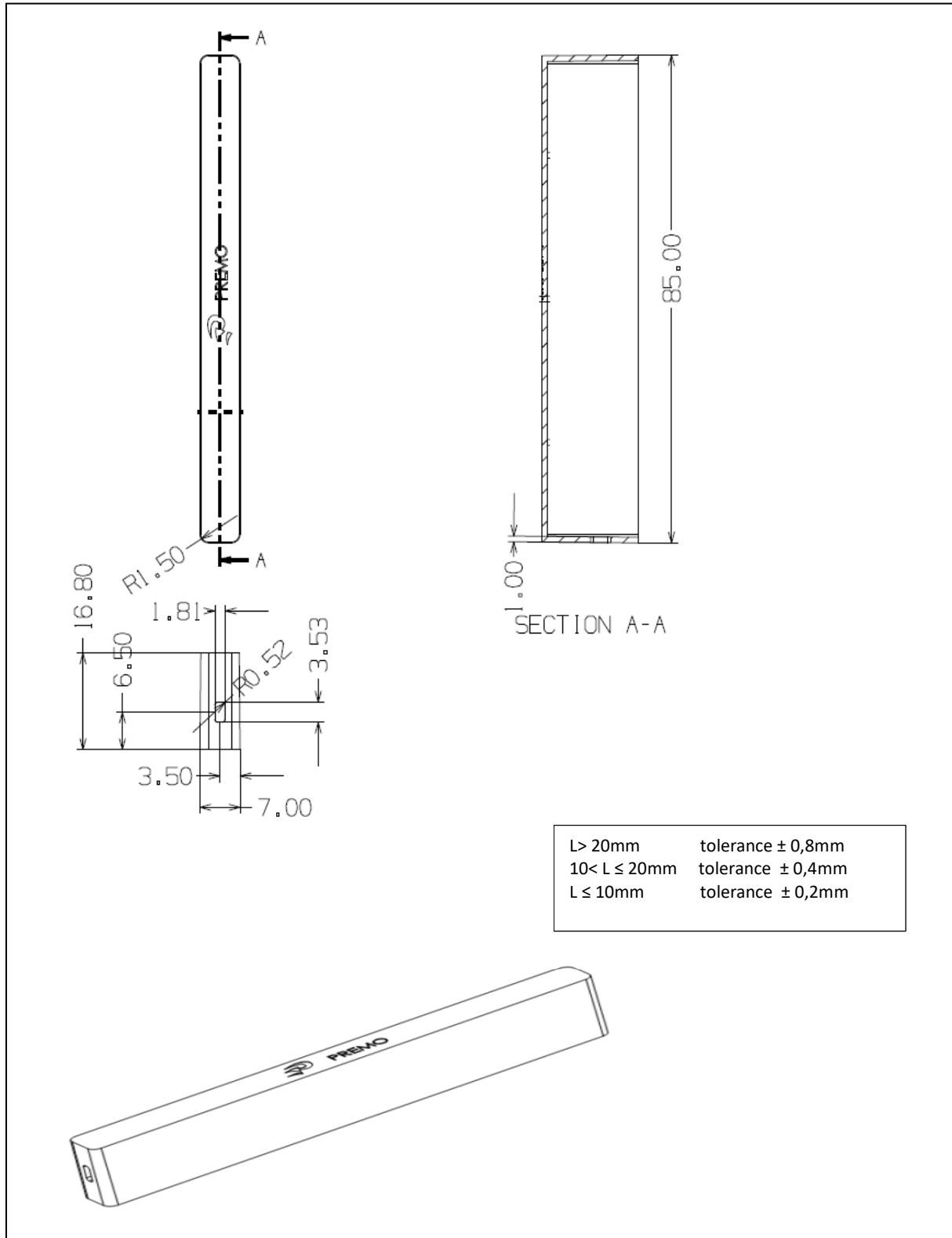
L: Ferrite core coil inductance.  
R: Copper resistance and connection.




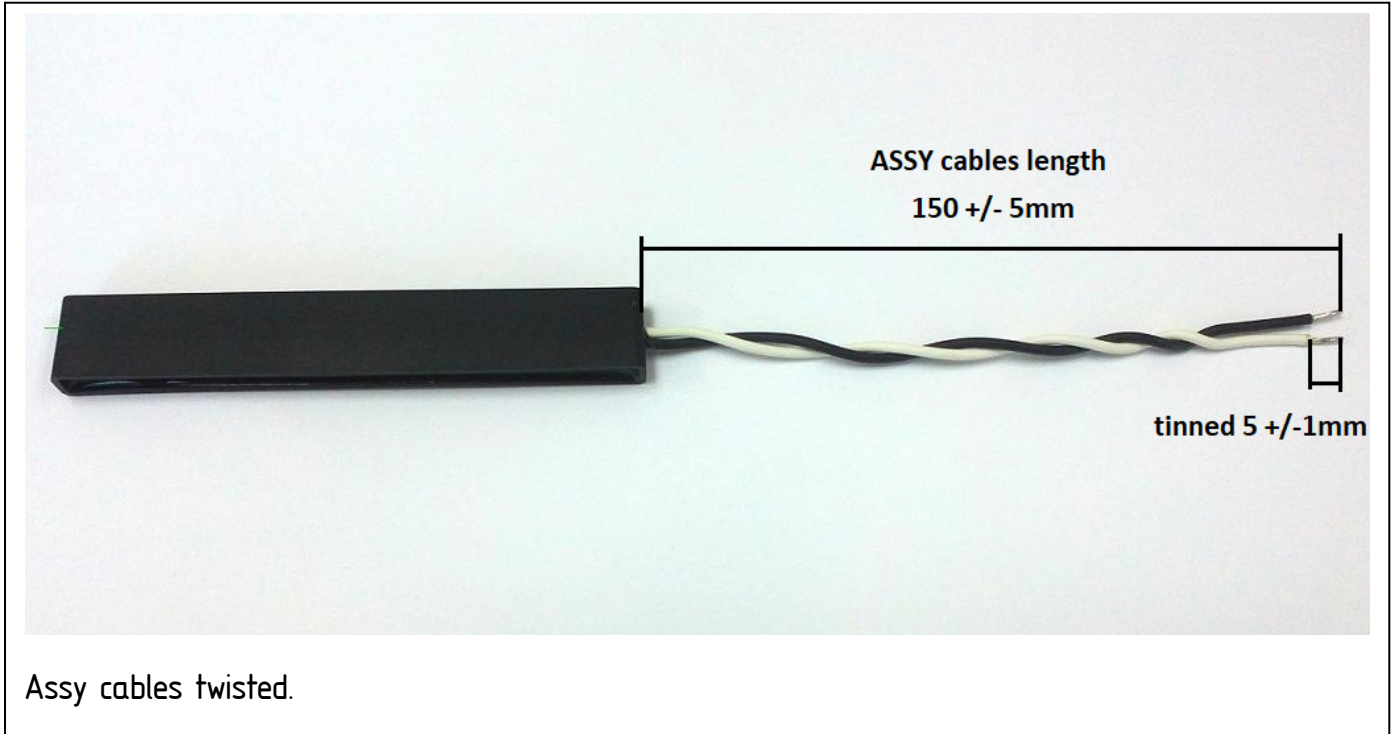
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#### 4. Mechanical Dimensions



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## 5. Electrical parameters

Parameters	Min.	Typ.	Max.	Symbol	Units	Remarks
<b>Inductance</b> - at Tr (±2,5%) - [ - 40°C; +85°C ] (±5%)	187,2 182,4	192	196,8 201,6		μH	(* ) Measured 100% in EOL Test at Tr.
<b>Resonant Frequency</b> - at Tr		20		Fo	Khz	
<b>Resistor (0.1Vrms, in F0)</b> - at Tr (±5%)	1,14	1,2	1,26	Rdc		(* ) Measured 100% in EOL Test
<b>Quality factor( L-inductance )</b>	18			Q		(* ) Measured 100% in EOL Test at Tr
<b>AC RMS Current</b>			1	I	Arms	

Inductance, Q- factor, Rdc are measured in LCR meter Wayne Kerr PMA 6430B



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## 6. Functional performances

Temperature range	Operating	-40	85	°C
	Storage	-40	85	°C
Humidity range	Operating	40	95	%
	Storage	40	95	%

- Products comply with RoHS requirements.
- This part based in AECQ-200 revision D.


## 7. Materials

CORE	Ferrite Core MnZn 68x7x3 mm
WIRE	Enamelled Cu wire 0.16mm/G1/SH/Sold
CAPACITOR	Type MKP-Radial 400Vdc 3.3nF ± 5%
HOUSING	Housing Plastic PA66+GF 30%
ASSY CABLES	TXL Cable SAE AWG22
RESIN	Polyurethane resin

## 8. Marked Information:

- Laser marking
- Marking Content:
  - PN PREMO: KGEA-BFAM-A-192J
  - Date: WW/YY
  - Serial number



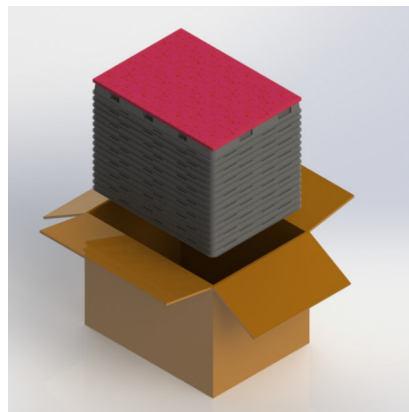
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## 9. Packaging information:

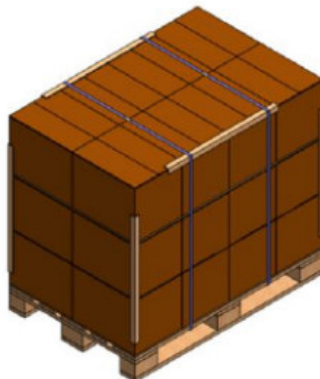
- Tray plastic: 12 cavities x 8pcs= 96pcs.




- Package: 6 tray plastic/ 576pcs
- Package size: 388x288x300 Interior/+6mm thickness carton



- Pallet
  - 13824 parts in a European pallet
  - Max Pallet dimension ( L x W x H ): 1200x800x1600



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## 10. Edition Control

ED	CHANGE BY	DATE	CHANGE DESCRIPTION
1ª	J.Ramón Fdez	14/09/21	Catalogue format KGEA-BFAM Updated electrical parameters according values obtained and validated in Tangier Plant ( L-inductance, Qmin, Rdc). @working frequency 20Khz This part based AECQ-200 revision D. The antenna belongs to class UL94-HB IP 68 grade waterproof.

