

KGEA-WT

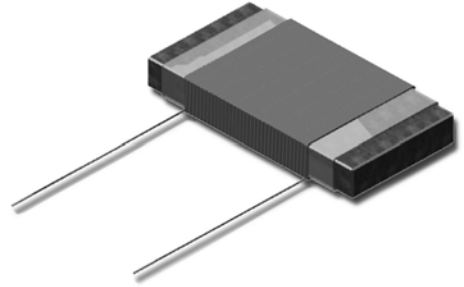
Keyless go emitter antenna winding heat shrink tube (33 μ H - 500 μ H)

Features

This part can offer the possibility to welding directly on PCB or the customer directly over-moulded for different applications of readers RF antennas and thus far reducing cost.

This solution of emitter antenna winding ferrite has 2 options:

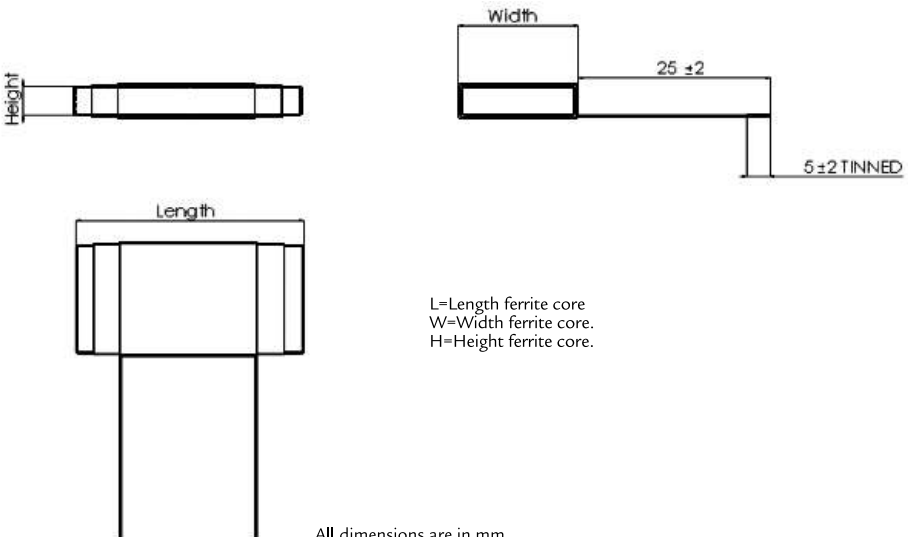
- (1) Only winding along all ferrite
- (2) Winding ferrite assembly with heat shrink tube.



Characteristics

- Different sizes of emitter antenna (small, medium, big) and ranges diameter wire ($\varnothing=0.100, 0.180, 0.300$ and 0.500mm)
- 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 $+125^{\circ}\text{C}$).
- Good cost/performance ratio.
- The part can be to protect with heat shrink tube to avoid handling problems.

Dimensions:



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Electrical specifications:

Operating Frequency @ 125 kHz ; dimensions ferrite core=68x7x3mm.

| P/N | L (mH) | Q | SRF (MHz) | Ipp máx (Amp)(*) |
|-----------------------|--------|------|-----------|------------------|
| KGEA-WT680703-B-0108J | 0.108 | >90 | >2.15 | 2-4 |
| KGEA-WT680703-B-0240J | 0.240 | >100 | >2.15 | 2-4 |
| KGEA-WT680703-B-0322J | 0.332 | >115 | >2.15 | 2-4 |
| KGEA-WT680703-B-0400J | 0.400 | >115 | >2.15 | 2-4 |
| KGEA-WT680703-B-0500J | 0.500 | >120 | >2.15 | 2-4 |

Operating Frequency @ 134,2 kHz ; dimensions ferrite core=68x7x3.

| P/N | L (mH) | Q | SRF (MHz) | Ipp máx (Amp)(*) |
|-----------------------|--------|------|-----------|------------------|
| KGEA-WT680703-C-0033J | 0.033 | >75 | >2.15 | 2-4 |
| KGEA-WT680703-C-0108J | 0.108 | >90 | >2.15 | 2-4 |
| KGEA-WT680703-C-0345J | 0.345 | >110 | >2.15 | 2-4 |
| KGEA-WT680703-C-0425J | 0.425 | >125 | >2.15 | 2-4 |
| KGEA-WT680703-C-0650J | 0.650 | >125 | >2.15 | 2-4 |

Operating Frequency @ 20kHz ; dimensions ferrite core=60x19x4mm.

| P/N | L (mH) | Q | SRF (MHz) | Ipp máx (Amp)(*) |
|-----------------------|--------|-----|-----------|------------------|
| KGEA-WT601904-A-0161J | 0.161 | >75 | >1 | 2-4 |
| KGEA-WT601904-A-0345J | 0.345 | >80 | >1 | 2-4 |
| KGEA-WT601904-A-0470J | 0.470 | >85 | >1 | 2-4 |
| KGEA-WT601904-A-0500J | 0.500 | >90 | >1 | 2-4 |

Operating Frequency @ 20kHz ; dimensions ferrite core=40x19x4mm.

| P/N | L (mH) | Q | SRF (MHz) | Ipp máx (Amp)(*) |
|-----------------------|--------|-----|-----------|------------------|
| KGEA-WT401904-A-0161J | 0.161 | >60 | >1 | 2-4 |
| KGEA-WT401904-A-0345J | 0.345 | >70 | >1 | 2-4 |
| KGEA-WT401904-A-0470J | 0.470 | >75 | >1 | 2-4 |
| KGEA-WT401904-A-0500J | 0.500 | >80 | >1 | 2-4 |

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.