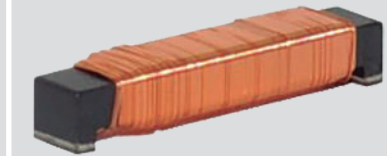


TR1102

SMD Ferrite Transponder Inductor 11x2.6x2.2mm (0.29mH - 16.2mH)

SINGLE AXIS TRANSPONDERS INDUCTORS



FEATURES

The TR1102 series of surface mountable ferrite wound inductor is the very first SMD coil designed for transponder use. Its length and cross sectional area are optimized to achieve the maximum sensibility in the coil axis. Its size is excellent for plastic moulded immobilizer transponders.

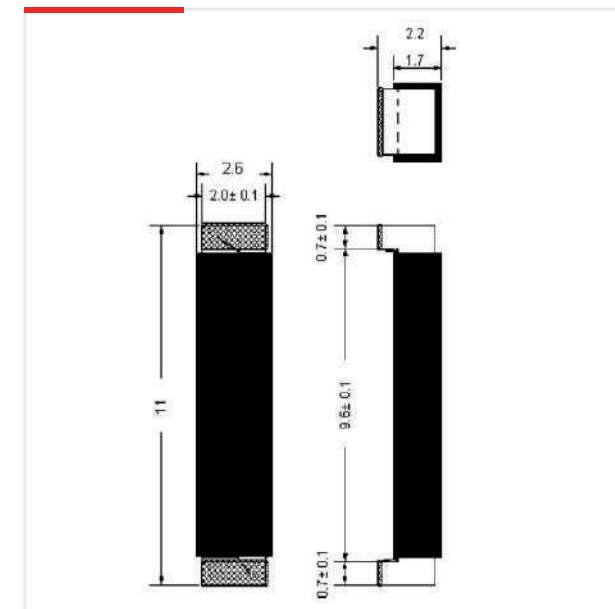
The TR1102 is the best solution when both cost and high-speed assembly of the circuit components are sought. This component is also functional to 20kHz and 134kHz.

01 CHARACTERISTICS

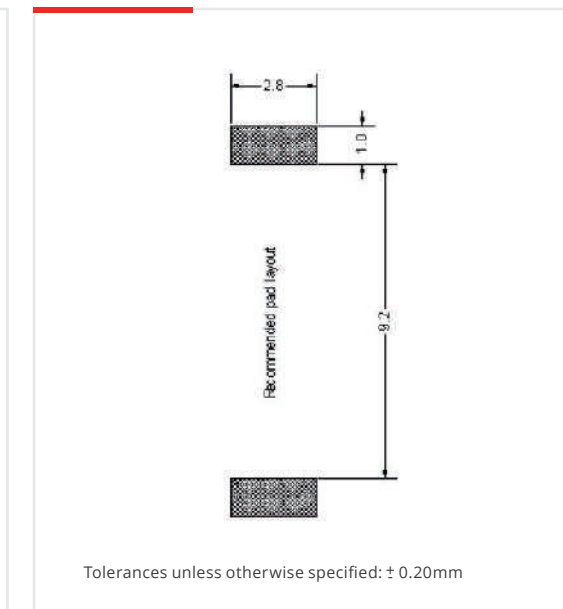
- › Size: 11 x 2.6 x 2.2 mm.
- › Terminals: Ag-Ni-Sn100.
- › Wire: H, 180°C, Solderable.
- › Max. Operating Temperature +125°C.

02 SPECIFICATIONS

DIMENSIONS (mm)



RECOMMENDED PAD-LAYOUT



Tolerances unless otherwise specified: ± 0.20mm

ELECTRICAL SPECIFICATIONS | 125KHz

| P/N | L (mH) | Tolerance | Cres (pF) | Q | SRF (kHz) | Sensitivity (mVpp/App/m min) | DCR (Ω) Max |
|--------------|--------|-----------|-----------|-------|-----------|------------------------------|-------------|
| TR1102-0238J | 2.38 | ±5% | 680 | >25 | 500 | >35 | 40.70 |
| TR1102-0491J | 4.91 | ±5% | 330 | >30 | 420 | >50 | 49 |
| TR1102-0720J | 7.20 | ±5% | 220 | >27 | 350 | >70 | 90.2 |
| TR1102-0900J | 9.00 | ±5% | 180 | >24,3 | 280 | >75 | 152 |

Operating and test freq: 125KHz.

SRF: Self-resonant frequency of the coil.

C: Capacitor for tuning circuits (125khz).

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.

› Terminals: Ag-Ni-Sn100.

› Wire: H, 180 °C, Solderable.

› Refer to the General Features of SMD transponder inductors page.