

# TR1102

## SMD Ferrite Transponder Inductor

11x2.6x2.2 mm (0.29 mH - 16.2 mH)

### Features

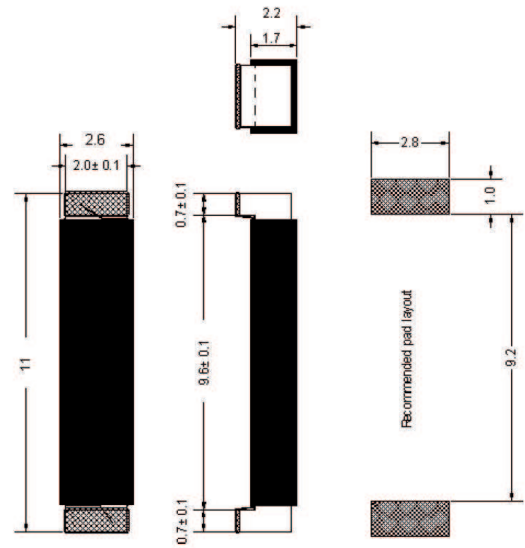
The TR1102 series of surface mountable ferrite wound inductor is the very first SMD coil designed for transponder use. Its length and cross sectional area are optimized to achieve the maximum sensibility in the coil axis.

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.

### Dimensions



All dimensions in mm

Tolerances unless otherwise specified:  $\pm 0.20\text{mm}$

### Electrical specifications

P/N	L (mH) @125 kHz	Tolerance	Cres (pF)	Q @125 kHz	SRF (kHz)	Sensitivity (mVpp/App/m) @125 kHz
TR1102-0238J	2.38	$\pm 5\%$	680	>36	>600	>43
TR1102-0491J	4.91	$\pm 5\%$	330	>30	>400	>65
TR1102-0720J	7.20	$\pm 5\%$	225	>25	>330	>80
TR1102-0900J	9.00	$\pm 5\%$	180	>30	>300	>80

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  $H=8.36 \text{ App/m}$  @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.