SDTR1103

11.8x3.6x2.5 mm (max dimensions coated version) (340 µH - 16.2 mH)

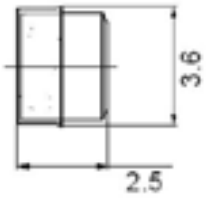
SMD Drop Resistant Transponder Coil

Characteristics

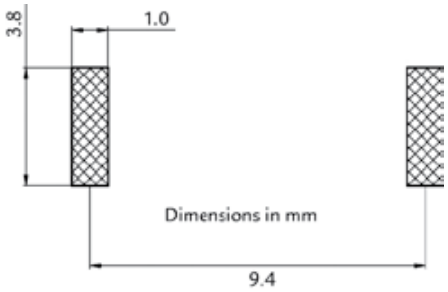
- This inductor is the best solution when high electrical and mechanical performan ce is needed.
- High stability in temperature. (-40°C to +125°C for TPMS applications no coated version) (-40°C to +85°C for Keyless Entry Systems)
- High drop test resistance (more than 500 times x 1meter).
- High sensitivity.
- Epoxy coated. High reliability with pick & place machines warranted.
- This component is also functional to 20kHz and 134kHz.

Applications

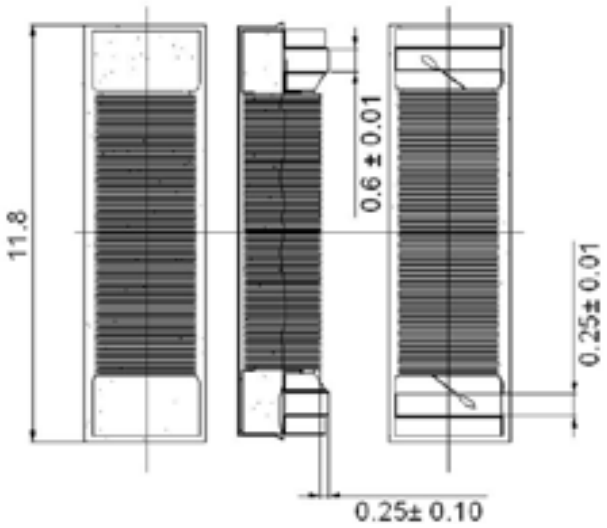
- Inmobilizers.
- Tyre Pressure Monitoring Systems.
- Keyless Entry Systems.
- Industrial applications.
- Access control.



Dimensions and recommended pad layout



All dimensions in mm
Tolerances unless otherwise specified: ±0.20mm



Electrical specifications

P/N	L (mH) @125 kHz	Cres (pF)	Q @125 kHz	SRF (kHz)	RDC (Ω) max.	Sensitivity (mVpp/App/m) @125 kHz
SDTR1103-0019J	0.19	8532	> 17.1	> 2000	8	> 10
SDTR1103-0238J	2.38	680	> 34.2	> 500	39	> 30
SDTR1103-0266J	2.66	609	> 40.5	> 500	33	> 40
SDTR1103-0477J	4.77	340	> 303	> 350	63.8	> 60
SDTR1103-0491J	4.91	330	> 27.9	> 380	85	> 50
SDTR1103-0720J	7.20	220	> 29.7	> 300	103	> 70
SDTR1103-0900J	9.00	180	> 30.6	> 300	115	> 80

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.
Operating and test freq: 125KHz.
SRF: Self-resonant frequency of the coil.
Other tolerances available under customer requirements.