

## SDTR1103-HF2

**SMD Transponder for NFC applications**  
**11.8x3.6x4.2.5mm MAX (1mH - 20mH)**  
 NFC ANTENNAS



### FEATURES

The SDTR1103-HF2 Series of Surface Mount ferrite wound inductor is the best solution when high electrical and mechanical performance is needed. Its length and cross sectional area are optimized to achieve the maximum sensitivity in the coil axis.

The construction of the coil offer high mechanical performance due to the plastic base and ferrite laminate.

### 01 CHARACTERISTICS

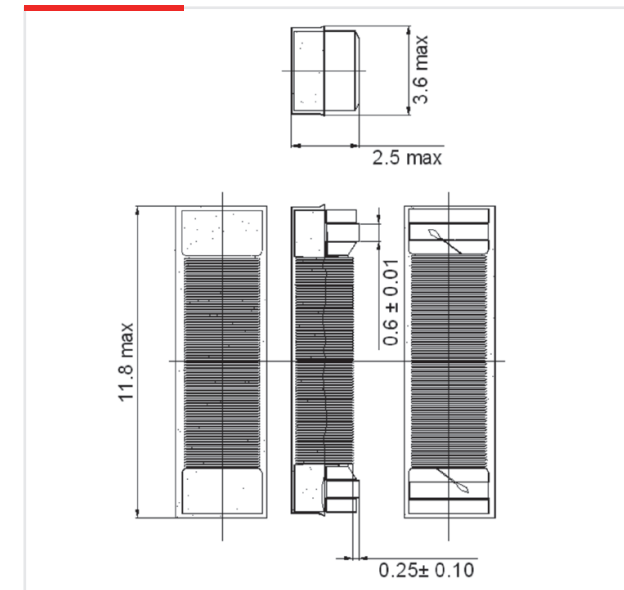
- › High stability in temperature
- › Operation temperature (-40°C to +85 °C)
- › Good mechanical performance.
- › Drop test: more than 500 times x 1 meter.
- › Taped & Reel: 3000pcs / reel.

### 02 APPLICATIONS

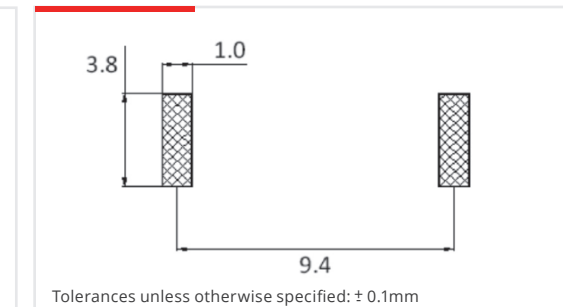
- › RFID readers at 13.56MHz.
- › NFC applications at 13.56MHz.

### 03 SPECIFICATIONS

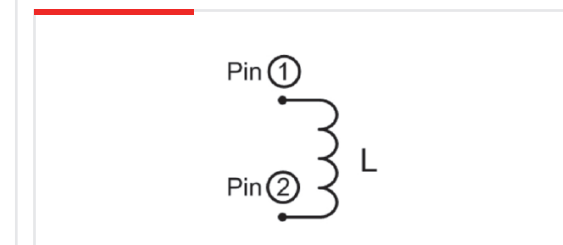
#### DIMENSIONS (mm)



#### RECOMMENDED PAD-LAYOUT



#### SCHEMATIC DIAGRAM



#### ELECTRICAL SPECIFICATIONS | (1μH - 20μH)

	L @13,56 MHz (μH)	Q min. @13,56MHz	SRF (MHz) Min	DRC Max (Ω)
SDTR1103-HF2-0001K	1.0 ± 10%	20	25	0.286
SDTR1103-HF2-0002K	2.0 ± 10%	20	25	0.4345
SDTR1103-HF2-0003K	3.0 ± 10%	20	25	0.506
SDTR1103-HF2-0006K	6.00 ± 10%	20	25	0.704
SDTR1103-HF2-0020K	20.00 ± 10%	20	25	1.32

Inductance, Q factor, DCR and SRF measured with an LCR meter HP 4887A