# SDTR1103CAP

# SMD Drop Resistant Transponder 12.1x4.0x2.9mm MAX (2.38mH-9mH)

SINGLE AXIS TRANSPONDERS INDUCTORS



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## **FEATURES**

The SDTR1103CAP 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.

#### CHARACTERISTICS 01

- > High stability in temperature, ranges:
  - Δ Ls/Ls (-40°C 25°C): -2% max.
  - Δ Ls/Ls (+25°C +85°C): +0.5% max.
- > Typical temperature coefficient Ls/°C:
  - +200±50ppm/°C.
  - -40°C to +125°C for TPMS applications.
  - -40°C to +85°C for Keyless Entry Systems
- > High sensitivity. 75 mVpp/App/m for 7.2 mH (@125 kHz). 135 mVpp/App/m for 16.2 mH (@125 kHz).
- > Mechanical performance. Drop test: more than 500 times x 1 meter.
- > CAP protection, 5 sides protected , high reliability with Pick&Place machines warranted.
- > Taped & Reel: 3000pcs / reel.
- > Inductance values from 340µH to 16.2mH for 125KHz operations (contact PREMO RFID for inductance range for other working frequencies such as 20KHz and 40KHz)...

#### APPLICATIONS 02

Inmobilizers.

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- > Tyre Pressure Monitoring Systems.
- Keyless Entry Systems

- Industrial applications.
- > Access control.

#### SPECIFICATIONS 03



### ELECTRICAL SPECIFICATIONS | 125KHz

P/N	L (mH)	Q min	SRF (kHz) Min	DRC (Ω) Max	Sensitivity (mVpp/Ap- p/m) min
SDTR1103CAP-0238J	2.38	45	500	27.5	45
SDTR1103CAP-0491J	4.91	36	380	68	50
SDTR1103CAP-0720J	7.20	39.5	300	82	70
SDTR1103CAP-0900J	9.00	40.5	300	92	80

The specification chart is a reference guide for the most common required values at working frequencies of 125 kHz. Any other inductance value at LF or tighter tolerances can be provided. Please contact our sales deparment for any inquiry.