

SDTR1503 15.75x3.6x2.5(max dimensions coated version)

SMD Drop Resistant Transponder Coil (900 μ H – 9.00 mH)

Features

The SDTR1503 Series of Surface Mount ferrite wound inductor was designed to offer more sensitivity than SDTR1103 series (up to 45% more). It is specially recommended when larger reading distance is needed or operations with metallic parts around the coil decrease the magnetic performance of the coils.

The construction is the same of the SDTR1103 series and offer a good mechanical performance with excellent electrical and magnetical behaviour.

Main characteristics:

-Same stability in temperature of SDTR1103.

-High mechanical performance.

-High sensitivity.

40mV/A/m for 1.82mH (@125KHz).

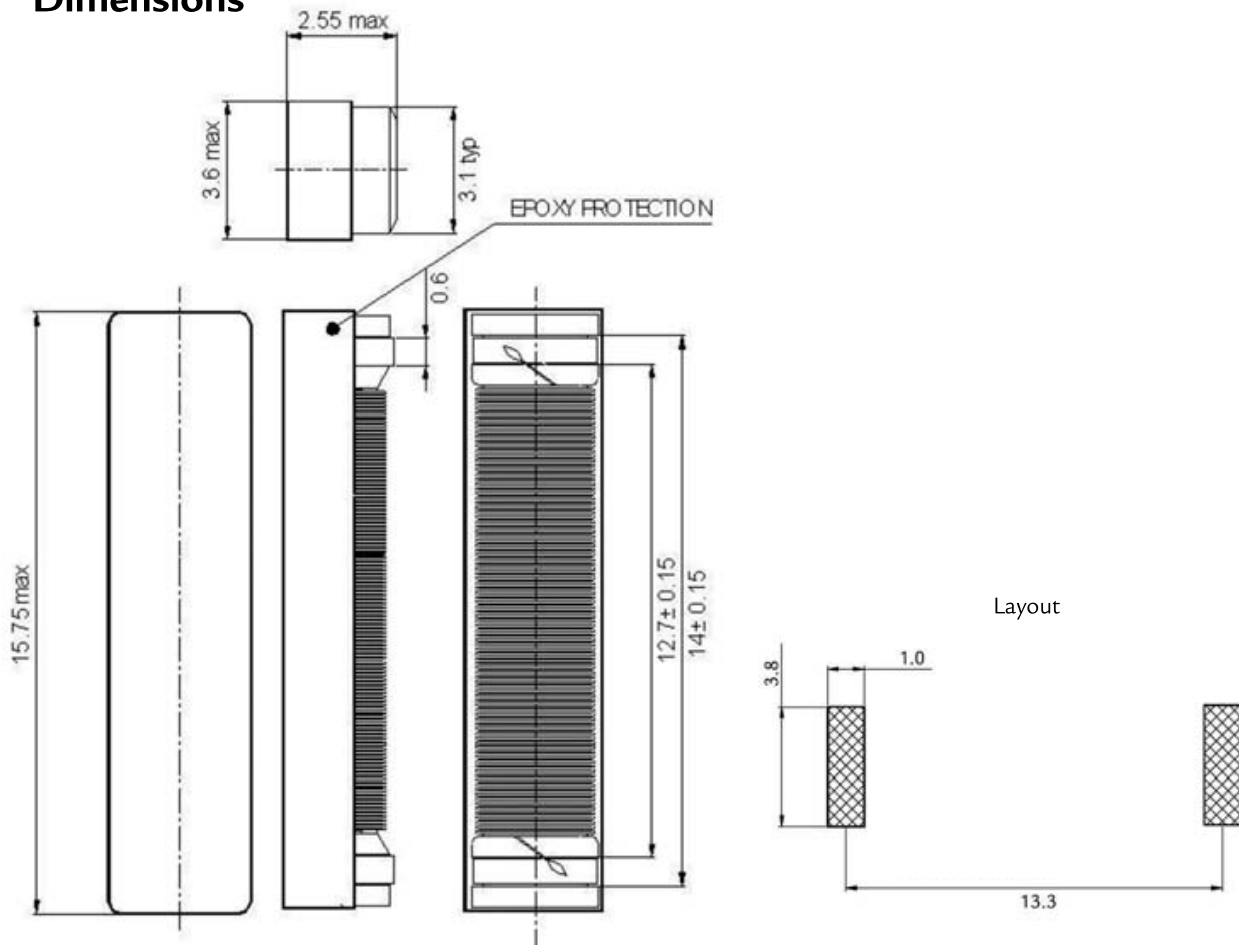
98mV/A/m for 7.2mH (@125KHz).

-Epoxy coated.

Moulded with epoxy protection, 5 sides protected, high reliability with Pick&Place machines warranted.

-Taped & Reel: 3000pcs / reel.

Dimensions



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Electrical specifications

P/N	L (mH) @125KHz	Cres (pF)	Q _{typ} @125KHz	SRF (Khz)	RDC (Ω) max	Sensitivity (mV _{pp} /A _{pp} /m) @125 kHz
SDTR1503-0090+	0.90	1800	>35	>1000	10.4	>35
SDTR1503-0108+	1.08	1500	>40	>950	12	>40
SDTR1503-0182+	1.82	890	>45	>800	16	>52
SDTR1503-0197+	1.97	820	>45	>700	16	>55
SDTR1503-0238+	2.38	680	>40	>550	24	>60
SDTR1503-0289+	2.89	656	>45	>500	26	>65
SDTR1503-0344+	3.44	560	>45	>500	29	>70
SDTR1503-0415+	4.15	470	>50	>400	33	>80
SDTR1503-0491+	4.91	400	>50	>350	37	>88
SDTR1503-0600+	6.00	330	>30	>300	55	>92
SDTR1503-0720+	7.20	270	>35	>300	63	>105
SDTR1503-0736+	7.36	225	>32	>300	60	>110
SDTR1503-0900+	9.00	220	>35	>250	68	>130

Replace the + with the tolerance letter required: A:3%, J:5% , K:10%

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. Also can be supplied different inductance values in the different winding axis. Please contact our sales department for any inquiry.

L and Q factor measured at 125 kHz, 1 Vac.

Sensitivity measured with Helmholtz coils H=8.36 A_{pp}/m @125 kHz. Contact us for measurement specification.

SRF: Self Resonant Frequency of the coil.