

ZC1003

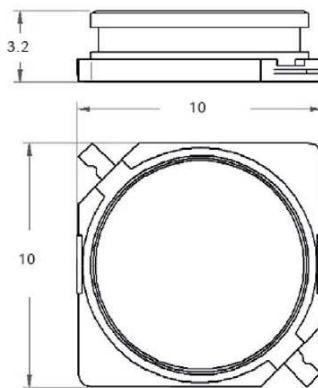
SMD Z AXIS COIL Low Profile

10x10x3.2 mm (2.38 mH - 16.2 mH)

Features

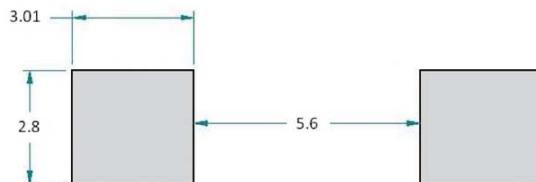
This SMD coil offers a very low profile solution for applications in which it's needed a transponder vertical coil with high sensitivity in z direction and in a small surface area. It's so a lower profile solution for those applications in which the height of the component is critical. The design combines the best electrical performance in these dimensions together with mechanical robustness.

Dimensions



All dimensions in mm

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



All dimensions in mm

Electrical specifications

P/N	L (mH)	C _{res} (pF)	Q	SRF (kHz)	RDC (Ω) max.	Sensitivity (mVpp/App/m)
ZC1003-0073J	0.735	2205	>65.7	>1000	5	>20
ZC1003-0238J	2.38	680	>58.5	>1000	27	>20
ZC1003-0266J	2.66	609	>58.5	>1000	29	>20
ZC1003-0491J	4.91	330	>72	>900	41	>25
ZC1003-0720J	7.20	220	>55	>850	55	>35
ZC1003-0900J	9.00	180	>81	>800	62	>40

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.

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

Sensitivity measured with Helmholtz coils H=8.36 App/m @125 kHz. Contact us for measurement specification.

SRF: Self Resonant Frequency of the coil.