TP0602 Micro SMD Hard Ferrite Transponder Inductor (10.8 mH-2.38 mH)

6.6x2.3x1.75 mm

Features

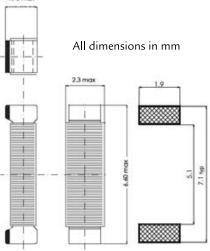
The TP0602 Series of Surface Mountable ferrite wound inductor is a small transponder solution for automotive applications like TPMS, Keyless Go and Keyless entry systems.

- -Size:6.6mm x 2.3mm x 1.75mm.
- -Good mechanical perfomace.

Electrical specifications

- -High sensitivity for 20KHz,40KHz and 125KHz applications.
- -Good perfomance in thermal shock test.
- -Good cost/perfomance ratio. -Available high inductance version for hearing aids applications. Good solution for TPMS moulded solutions. The TP0602 is the smaller SMD transponder coil available in the market.

Dimensions 1.75 max



Layout

125KHz						
P/N	L (mH)	Tolerance	Q	SRF (kHz)	Sensitivity (mV _{pp} /A _{pp} /m)	
TP0602-1080J	10.8	±5%	>20	>300	>40	
TP0602-0900J	9.00	±5%	>20	>300	>38	
TP0602-0736J	7.36	±5%	>23	>400	>36	
TP0602-0720J	7.20	±5%	>20	>450	>35	
TP0602-0600J	6.00	±5%	>23	>450	>32	
TP0602-0491J	4.91	±5%	>25	>600	>30	
TP0602-0415J	4.15	±5%	>20	>600	>25	
TP0602-0344J	3.44	±5%	>25	>700	>22	
TP0602-0289J	2.89	±5%	>30	>1000	>20	
TP0602-0238J	2.38	±5%	>35	>1000	>18	

20KHz

20KHz				40KHz (hearing aids application)					
P/N	L (mH)	Tol.	Q (typ)	SRF (Khz)		P/N	L (mH)	Tol.	Q (typ)
TP0602-124J	120	±5%	4.5	>100		TP0602-184J	184	±5%	8
TP0602-104J	100	±5%	5.0	>120		TP0602-124J	120	±5%	7
TP0602-823J	82	±5%	5.6	>140		TP0602-823J	82	±5%	7
TP0602-673J	67	±5%	6.5	>160		TP0602-673J	67	±5%	8
TP0602-563J	56	±5%	7.5	>190		TP0602-563J	56	±5%	9
TP0602-473J	47	±5%	8.0	>200		TP0602-473J	47	±5%	9
TP0602-333J	33	±5%	10	>200		TP0602-333J	33	±5%	12

Replace + with the tolerance code letter.

Operating and test freq: 125KHz.

SRF: Self-resonant frequency of the coil.

C: Capacitor for tuning circuits (125khz).

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.

· Terminals: Ag-Ni-Sn100.

· Wire: H, 180°C, Solderable.

· Max. Operating Temperature 130°C.

±5%

15

SRF

>80

>120

>140

>160

>190

>200

>200

>250

20

TP0602-203J

· Refer to the General Features of SMD transponder inductors page.

42