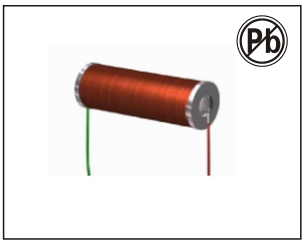
Passive Audiocoil (telecoil) Products with leads



Product Options for Custom Coil Development

Core Materials

- Metal (ferrous & non-ferrous)
- Ferrite
- Sintered materials
- Air
- Plastic
- Ceramic

Core Forms

- Flanged bobbins
- Straight rods
- Eccentric shapes

Coatings

- UV cured
- Epoxy resin
- Parylene
- Plastic overmoulding

Wire

- 10 to 127 micron/58 to 36 AWG
- Copper
- Silver
- Gold
- Standard or self-bonding

Leads

- Soldered to PCB's on bobbin
- Cemented to coil
- Solid
- Litz
- Skeined
- Tinned

Surface Mount Options

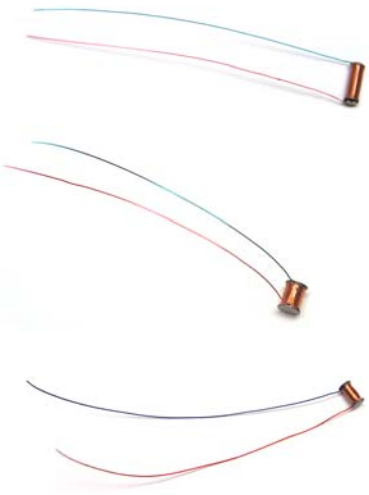
- PCB terminal pads soldered to coil
- Metal terminal pads

Other Product Types

- HAC Coils (Mobile phone compatibility)
- RF Coils
- Far-field Canceling Coils
- EMI protected Amplified Coils

Other Services

- Laser welding
- Laser marking
- Circuit board design & fabrication
- Annealing/heat treating



Passive Coil Products – STANDARD

The –xx- in the Audio coil parts listed below designates the assembly version. Most Standard items use the designator -31- which typically designates 36 AWG solid copper leads with solderable polyurethane insulation (green on the start of the winding, red on the finish end). Leads on -31- designated products are 1.9" (48 mm) nominal length and stripped approximately 0.25" (6.5 mm) at the ends. In most cases a protective UV coating is applied. Products with other coatings or assembly versions other than -31- may not be available as Standard items. Please contact us if you require other versions. Standard products are RoHS compliant.

								1 kHz Sensitivity (@ 1 A/m)[b]	
		Length (max)		Diameter (max)		R_{DC} (+/-10%)	Inductance (+/-15%)	Open Circuit (+/-2dB)	w/ 10kohm (+/-2dB)
PART #	**Lead[a]**	**inch**	**mm**	**inch**	**mm**	**Ohms**	**mH, 1 kHz**	**dBV**	**dBV**
W07-xx-FAM	C	0.350	8.89	0.075	1.91	1050	175	-56.4	-57.2
Y01-xx-CFL	S	0.250	6.35	0.090	2.29	380	40	-65.8	-66.2
Y01-xx-EFL	S	0.250	6.35	0.090	2.29	900	140	-60.5	-61.1
Y01-xx-GEN	S	0.250	6.35	0.090	2.29	1800	270	-57.2	-58.6
Y01-xx-JA0	S	0.250	6.35	0.090	2.29	3350	520	-53.9	-56.8
Y03-xx-KAL	S	0.500	12.70	0.085	2.16	1900	630	-47.5	-49.6
Y07-xx-FFN	C	0.185	4.70	0.090	2.29	1670	205	-59.4	-60.5
Y09-xx-BFI	C	0.225	5.71	0.080	2.05	130	13.5	-70.1	-70.4
Y10-xx-GCN	C	0.145	3.68	0.118	3.00	2250	350	-57.2	-59.4
Y11-xx-FI0	S	0.250	6.35	0.070	1.78	1750	175	-59.5	-60.9
Y12-xx-HAO	S	0.300	7.62	0.070	1.78	2200	275	-55.7	-57.6
Y21-xx-GBN	S	0.315	8.00	0.070	1.78	1500	200	-56.8	-58.0
Y21-xx-HIO	S	0.315	8.00	0.070	1.78	2500	330	-54.3	-56.4
Y28-xx-DIDO	C	0.142	3.61	0.083	2.11	1250	96	-65.0	-66.0
Y29-xx-FHM	C	0.138	3.51	0.142	3.61	1820	400	-56.4	-58.0
Y31-xx-FHN	S	0.230	5.84	0.080	2.05	1700	180	-60.0	-61.4
Y33-xx-LCN	S	0.350	8.89	0.090	2.29	3700	900	-47.9	-51.2
Y41-xx-GBR[c]	S	0.213	5.40	0.063	1.60	2870[c]	184	-62.0	-64.0
Y44-xx-JFR	S	0.200	5.08	0.087	2.20	5400	510	-57.0	-60.8

NOTES:

[a] C = cemented to coil, S = soldered to pad on bobbin end(s)

[b] Sensitivity in units of dBv (dB re lv) @ H = 1 Amp/meter can be converted to units of mV/Gauss by use of the following relationship: mV/Gauss = 79,570 x $10^{(dBv/20)}$

[C] DC Resistance specification of Y41-xx-GBR is +/-20%. -31- designation is not available as Standard.

Passive Coil Products – SPECIAL ORDER

The following is a partial list of passive coils considered Special Order items. Special Order items are subject to availability, minimum quantities and/or set up charges. Please contact us for more details.

								1 kHz Sensitivity (@ 1 A/m)[b]	
		Length (max)		Diameter (max)		R_{DC} (+/-10%)	Inductance (+/-15%)	Open Circuit (+/-2dB)	w/ 10kohm (+/-2dB)
PART #	Lead[a]	inch	mm	inch	mm	Ohms	mH, 1 kHz	dBV	dBV
A03-xx-EHL	C	0.950	24.13	0.058	1.47	640	220	-46.0	-47.1
A03-xx-IAM	C	0.950	24.13	0.075	1.91	1700	720	-40.6	-42.5
A04-xx-BHH	C	0.844	21.44	0.058	1.47	100	29.5	na	na
A14-xx-2CIJ	C	1.265	32.13	0.058	1.47	520	230	na	na
Y01-xx-FIM	S	0.250	6.35	0.090	2.29	1485	215	-57.8	-59.1
Y02-xx-BFE	S	0.350	8.89	0.088	2.23	54	14.7	-66.4	-66.5
Y02-xx-GEL	S	0.350	8.89	0.090	2.29	1150	260	-53.9	-55.0
Y02-xx-HCL	S	0.350	8.89	0.090	2.29	1420	340	-53.2	-53.9
Y02-xx-LFN	S	0.350	8.89	0.090	2.29	3700	900	-47.9	-51.2
Y09-xx-FAN	C	0.230	5.84	0.085	2.16	1350	145	-60.0	-61.1
Y15-xx-HEM	S	0.400	10.16	0.079	2.01	1525	350	-51.2	-52.7
Y17-xx-EFL	S	0.276	7.01	0.083	2.11	875	120	-59.4	-60.0
Y20-xx-IDL	S	0.453	11.51	0.086	2.18	1500	460	-48.5	-50.0
Y32-xx-FFN	C	0.320	8.13	0.075	1.91	1250	170	56.1	-57.2

NOTES:

[a] C = cemented to coil, S = soldered to pad on bobbin end(s)

[b] Sensitivity in units of dBv (dB re lv) @ H = 1 Amp/meter can be converted to units of mV/Gauss by use of the following relationship: mV/Gauss = 79,570 x $10^{(dBv/20)}$