

## Passive Audiocoil (telecoil) Products with leads

Global Coils offers a variety of passive coils with leads as Standard items and Special Order items listed on the following pages. However, we specialize in custom product development to meet your most demanding audiocoil applications. Please contact us to discuss your custom requirements.

## 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

*See Surface Mount Audiocoil datasheet for more details*

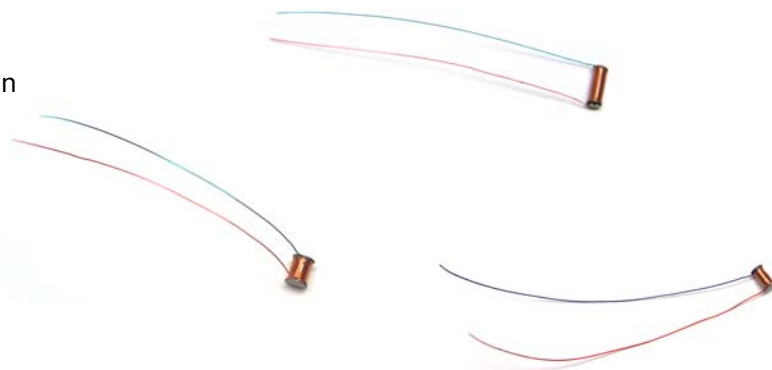
### Other Product Types

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

*See PC5 Amplified Audiocoil datasheet for more details*

### Other Services

- Laser welding
- Circuit board design
- Annealing/heat treating



## Passive Coil Products – STANDARD

The -xx- in the Audiocoil 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.

PART #	Lead <sup>a</sup>	Length (max)		Diameter (max)		R <sub>DC</sub> (+/-10%)	Inductance (+/-15%)	1 kHz Sensitivity (@ 1 A/m) <sup>b</sup>	
		inch	mm	inch	mm	Ohms	mH, 1 kHz	Open Circuit (+/-2dB)	w/ 10kohm (+/-2dB)
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-JAO	S	0.250	6.35	0.090	2.29	3350	520	-53.9	-56.8
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
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 <sup>c</sup>	S	0.213	5.40	0.063	1.60	2870 <sup>c</sup>	184	-62.0	-64.0
Y44-xx-JFR	S	0.200	5.08	0.087	2.20	5400	510	-57.0	-60.8
Y46-xx-IGR	S	0.350	8.89	0.055	1.40	4000	350	-53.0	-56.0
Y47-xx-FDR	S	0.252	6.40	0.047	1.20	2200	115	-62.5	-64.5
Z28-xx-GCO	C	0.142	3.60	0.083	2.10	2060	250	-61.0	-62.9

**NOTES:**

<sup>a</sup> C = cemented to coil, S = soldered to pad on bobbin end(s). For S type leaded coils, standard configurations may have start and finish leads on same end of bobbin.

<sup>b</sup> Sensitivity in units of dBv (dB re 1v) @ H = 1 Amp/meter can be converted to units of mV/Gauss by use of the following relationship:  $mV/Gauss = 79,570 \times 10^{(dBv/20)}$

<sup>c</sup> DC Resistance specification of Y41-xx-GBR is +/-20%. -31- designation is not available as Standard.

To provide the best products, Global Coils reserves the right to change materials, processes and specifications, without notice.

**(See next page for Special Order items)**

## 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.

PART #	Lead <sup>a</sup>	Length (max)		Diameter (max)		R <sub>DC</sub> (+/-10%)	Inductance (+/-15%)	1 kHz Sensitivity (@ 1 A/m) <sup>b</sup>	
		inch	mm	inch	mm	Ohms	mH, 1 kHz	Open Circuit (+/-2dB)	w/ 10kohm (+/-2dB)
								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
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-FAN	C	0.230	5.84	0.085	2.16	1350	145	-60.0	-61.1
Y11-xx-FIO	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
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:

<sup>a</sup> C = cemented to coil, S = soldered to pad on bobbin end(s)

<sup>b</sup> Sensitivity in units of dBv (dB re 1v) @ H = 1 Amp/meter can be converted to units of mV/Gauss by use of the following relationship:  $mV/Gauss = 79,570 \times 10^{(dBv/20)}$

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Please contact Customer Service at our European Sales Offices for further details, pricing and samples of these or any other Global Coils products.