

# GOERTZ AIR CORE FOIL INDUCTORS

MADISOUND is pleased to offer Goertz air core foil inductors. Foil inductors have obvious advantages over wire wound inductors in terms of improved electrical and sonic characteristics.

- 1" wide x 0.003" 14AWG
- 99.99% pure copper foil
- 0.002" thick polypropylene film coating
- Negligible skin-effect below 100kHz
- Flat inductive reactance from 5Hz through 50kHz
- No saturation distortion
- Extremely low stored charge
- Cool operation, good heat dissipation
- High winding tension and vacuum fusing reduces FM distortion
- Negligible power loss due to skin-effect
- Tolerance 2.5%



## 14 AWG COPPER

mH	DCR	Dia. In.	Price	mH	DCR	Dia. In.	Price
0.10	.050	1.6	\$12.60	0.75	.162	2.5	\$23.05
0.15	.054	1.7	\$13.80	0.82	.175	2.6	\$24.05
0.22	.071	1.8	\$14.60	1.00	.188	2.7	\$25.60
0.25	.076	1.8	\$14.90	1.20	.220	2.8	\$28.30
0.27	.078	1.9	\$15.10	1.50	.251	3.0	\$30.05
0.30	.082	2.0	\$15.60	1.80	.300	3.2	\$32.25
0.33	.083	2.0	\$16.40	2.00	.315	3.3	\$34.50
0.39	.095	2.1	\$17.90	2.20	.332	3.4	\$36.70
0.47	.110	2.2	\$18.40	2.70	.370	3.5	\$39.35
0.50	.118	2.2	\$19.25	3.30	.421	3.7	\$43.70
0.56	.130	2.3	\$19.80	3.90	.477	3.9	\$46.40
0.62	.148	2.3	\$20.85	4.70	.547	4.1	\$54.90
0.68	.154	2.4	\$22.00	6.00	.658	4.2	\$61.00

## 16 AWG COPPER

mH	DCR	Dia. In.	Price
0.10	.078	1.3	\$10.80
0.15	.086	1.4	\$11.10
0.22	.112	1.5	\$11.65
0.25	.120	1.6	\$11.75
0.27	.124	1.6	\$11.85
0.30	.129	1.8	\$12.20
0.33	.130	1.9	\$12.55
0.39	.150	2.0	\$13.30
0.47	.173	2.1	\$13.85
0.50	.190	2.1	\$14.65
0.56	.204	2.2	\$15.15
0.62	.276	2.2	\$15.85
0.68	.242	2.3	\$16.55
0.75	.250	2.4	\$16.95
0.82	.276	2.5	\$17.35
1.00	.295	2.6	\$18.15
1.20	.343	2.7	\$19.25
1.50	.394	2.9	\$20.05
1.80	.471	3.1	\$20.65
2.00	.497	3.2	\$23.70
2.20	.522	3.3	\$25.00
2.70	.583	3.4	\$26.90
3.30	.661	3.6	\$29.90

## 12 AWG COPPER

mH	DCR	Dia. In.	Price
0.10	.027	1.7	\$17.90
0.15	.032	1.8	\$19.95
0.22	.045	1.9	\$22.00
0.25	.047	2.0	\$23.15
0.27	.049	2.0	\$23.95
0.30	.052	2.0	\$25.15
0.33	.053	2.1	\$27.50
0.39	.087	2.2	\$29.40
0.47	.070	2.3	\$30.50
0.50	.075	2.4	\$32.55
0.56	.083	2.4	\$34.80
0.62	.091	2.4	\$36.35
0.68	.098	2.5	\$38.15
0.75	.105	2.6	\$39.10
0.82	.111	2.7	\$40.10
1.00	.120	2.8	\$42.05
1.20	.141	2.9	\$45.60
1.50	.160	3.1	\$50.10
1.80	.191	3.3	\$52.35
2.00	.202	3.4	\$57.40
3.90	.304	4.1	\$81.10
4.70	.348	4.4	\$97.95
6.00	.415	4.7	\$111.95

## Air Core Foil Inductors

Since we introduced our Air Core Inductors in 1997 they have become standard fixtures in many of the Worlds finest speakers, and thousand of audiophiles have improved their sound by personally upgrading their crossover circuits with our products.

Alpha-Core developed the combination of high grade OFC copper with polypropylene film as the dielectric, wound onto a non-hygroscopic core able to endure the sometimes high working temperature without long term shrinkage. We knew that a loose center will allow relative motion of layers due to electromagnetic forces, leading to FM distortion, so we chose LEXAN™ a high strength, super stable engineering resin for our cores.

We also developed the vacuum fusing process in order to further preserve the long-term integrity of our inductors.

Research has no limits, so throughout the years we have worked on improving our product and proprietary manufacturing equipment. As a result we are now winding our inductors even tighter, to closer tolerances and at increased productivity. Inductors are calibrated within 2.5% of nominal, wound with superior tightness and fused at both ends, hermetically protecting the conductor (be it copper or fine silver) against tarnishing with time.

The copper foil inductors cannot be wound down and we are not able to special order values that are not listed here. If you need a special value please order directly from Alpha-Core.