Multi-Walled concentric bundled Carbon Nanotube based power inductor

- Made using carbon nanotubes (CNTs); invention also includes multi-layer inductors, transformers, and power converters
- CNTs result in low eddy current, low proximity effect loss, and low AC resistance; good for high frequency circuits
- CNT inductor 50x greater performance than copper

Advantages

- Higher inductance, Q-factor and self-resonance frequency (SRF) with various geometrical parameters
- Increased performance compared to traditional power inductors
- Sustains a larger amount of heat than conventional inductors without breaking down

Applications

- Inductors
- Power converters
- Circuit Board & Electronic Components

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