Ideal Transformer

Transformer Uses

• ac voltage conversion
• impedance matching
• galvanic isolation
• common mode choke
Applications of Coupled Inductors

Transformer Design

I & E Sections inverted on alternate layers
- "I" Section
- "E" Section

Each individual lamina insulated with lacquer or metal oxide.

Former
Secondaries
Primary

Laminated soft iron core clamped with bolts
Insulating cover

https://www.altrancorp.com/products/toroidal-power-transformers/

http://www.learnabout-electronics.org/ac_theory/transformers03.php

reddit.com
Transformer Reflection
Example Circuit Simplification

Equivalent Circuits