

# Transformer Assembly with Drum Core Inductor

## ■ Description

- ▶ Transformer assembled with I-core inductor primary and bobbin-wound secondary
- ▶ Inductor purchased off-the-shelf has desired inductance with known number of turns
- ▶ Standard bobbin with opening to fit inductor is wound to get the desired turns ratio
- ▶ Two components individually soldered on circuit board to complete the assembly

## ■ Benefits

- ▶ Reduces cost for the transformer by using an off-the-shelf component
- ▶ No custom transformer procurement
- ▶ Procurement only for wound bobbin
- ▶ Circuit board assembly also reduces cost and simplifies construction
- ▶ **Could be used with:** Low cost power converters

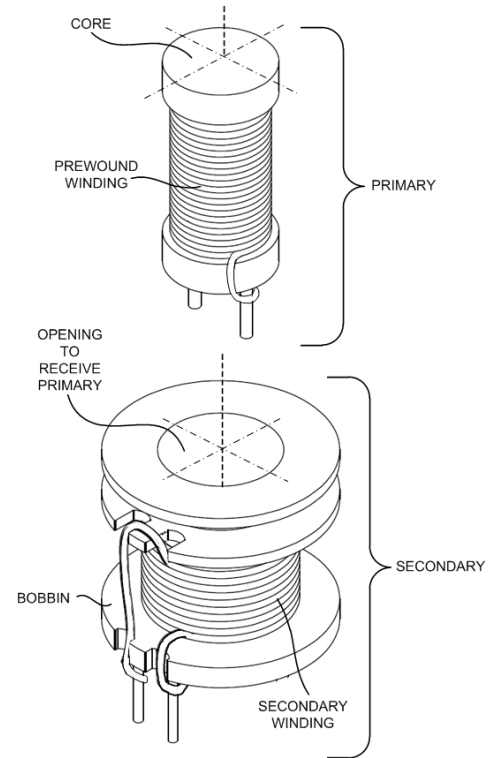


Figure 1. Transformer assembly with preassembled primary drum core inductor