

Trimmed Balance and Cancellation Windings

■ Description

- ▶ Trim the effects of cancellation and balance shield windings of a transformer by adding a capacitor (C_1) to one end of the cancellation winding and another capacitor (C_2) to one end of the balance shield winding

■ Benefits

- ▶ Reduces common mode noise and electromagnetic interference (EMI)
- ▶ Maintains same bobbin size for a transformer that does not use trimming capacitors and with improved performance
- ▶ Filter components such as a common mode choke or a Y-capacitor can be avoided or reduced in size
- ▶ **Could be used with:** flyback converters

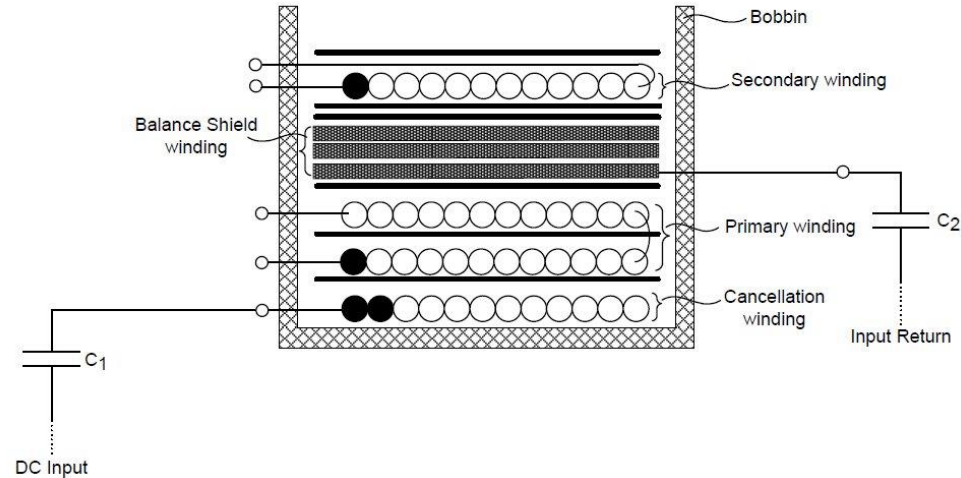


Figure 1. Winding diagram