CCFL Transformers

The FL Series of transformers is designed for use in cold cathode fluorescent lamp (CCFL) power supplies at operating frequencies up to 100 kHz. With output power from 3.5 to 6.0 Watts, these transformers are ideal for LCD backlight applications. They are available in two different gull wing, surface mount packages and one in-board configuration for height restricted designs.

Free evaluation samples are available by contacting Coilcraft or ordering them on-line at www.coilcraft.com.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Schematic</th>
<th>Package</th>
<th>Turns ratio</th>
<th>Output (Watts)</th>
<th>Inductance</th>
<th>Imax (mA)</th>
<th>Vrms (V)</th>
<th>Vinst max</th>
<th>DCR max (Ωs)</th>
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</thead>
<tbody>
<tr>
<td>FL2015-1L_ B 1 1:67 1:0.19 6.0</td>
<td></td>
<td></td>
<td></td>
<td>43</td>
<td>5.0</td>
<td>22</td>
<td>1600</td>
<td>25.0</td>
<td>2000</td>
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<td>1600</td>
<td>29.0</td>
<td>2000</td>
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<td>1600</td>
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</table>

1. When ordering, please specify a packaging code:

   **Packaging:** D = 13” machine ready reel. EIA-481 embossed plastic tape.
   Package 1: 400 parts per full reel.
   Package 5: 1000 parts per full reel.
   B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter D instead.

2. Inductance is measured across both halves of the primary.
3. Vrms = continuous voltage.
4. Vinst = instantaneous voltage at startup.
5. Ambient temperature range: −40°C to +85°C.
   Storage temperature range: Component: −40°C to +85°C
   Tape and reel packaging: −40°C to +80°C
6. Electrical specifications at 25°C.

Schematics

A

Topo

B

Topo

C

Topo

D

Topo

www.coilcraft.com
CCFL Transformers

Package 1

Weight: 5.5 – 6.1 g
Terminations: Tin-silver over tin over nickel over phos-bronze
Tape and reel: 400/13" reel  44 mm tape width
For packaging data see Tape and Reel Specifications section.

Package 4

Weight: 3.6 g
Terminations: Tin-silver over tin over nickel over phos-bronze
Tape and reel: 750/13" reel  44 mm tape width
For packaging data see Tape and Reel Specifications section.
CCFL Transformers
Package 5 – In-board mounting

Weight: 3.8 – 4.0 g
Terminations: Tin-silver over tin over copper over copper-steel
Tape and reel: 1000/13” reel  56 mm tape width
For packaging data see Tape and Reel Specifications section.