This flyback transformer was developed specifically for ON Semiconductor's isolated 2 W Bias Supply using the NCP1030, and is specified in Application Note AND8119/D. It is ideal for 48 V telecom and 42 V automotive applications.

It features interleaved primary and secondary windings to minimize leakage inductance. It is designed for 35–76 V input. Isolation (hipot) is 1500 Vrms, one minute between the primary and secondary windings and 750 Vrms between windings and the core.

To request free evaluation samples, contact Coilcraft or visit www.coilcraft.com.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance at 0 Adc ±10% (µH)</th>
<th>Inductance at Ipk3 min (µH)</th>
<th>DCR max (Ohms)</th>
<th>Leakage Inductance4 max (µH)</th>
<th>Turns ratio pri : sec (7-8)</th>
<th>pri : sec (5-6)</th>
<th>Ipk3 (mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B0226-EL_</td>
<td>120</td>
<td>102</td>
<td>0.655 (pins 1–4)</td>
<td>0.95</td>
<td>1:0.36</td>
<td>1:0.36</td>
<td>400</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.820 (pins 2–3)</td>
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<td></td>
<td>0.248 (pins 7–8)</td>
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<td></td>
<td>0.248 (pins 5–6)</td>
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</tbody>
</table>

1. When ordering, specify a **packaging** code:
   - B0226-ELD
     - **Packaging:**
       - D = 13” machine ready reel. EIA-481 embossed plastic tape (600 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 for the primary, measured at 275 kHz, 0.5 Vrms.
3. Peak primary current drawn at minimum input voltage.
4. Leakage inductance is for the primary winding with the secondary windings shorted.
5. Operating temperature range: -40°C to +85°C.
6. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

**Core material:** Ferrite  
**Terminations:** RoHS tin-silver (96.5/3.5) over tin over nickel over phosphor bronze.
**Weight:** 0.96 g  
**Ambient temperature:** -40°C to +85°C  
**Maximum part temperature:** +125°C (ambient + temp rise)  
**Storage temperature:** Component: -40°C to +85°C. Tape and reel packaging: -40°C to +80°C

**Resistance to soldering heat** Max three 40 second reflo ws at +260°C, parts cooled to room temperature between cycles.

**Moisture Sensitivity Level (MSL)** 1 (unlimited floor life at <30°C / 85% relative humidity)

**Failures in Time (FIT) / Mean Time Between Failures (MTBF)** 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

**Packaging** 600 per 13” reel. Plastic tape: 24 mm wide, 0.37 mm thick, 16 mm pocket spacing, 6.1 mm pocket depth

**PCB washing** Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

**Dimensions are in inches**