Flyback Transformers For ON Semiconductor NCP101X

- Developed for the ON Semiconductor NCP101X Self-Supplied Monolithic Switcher
- A9619-CL provides 7 Watts output for 120 Vac applications
- B0570-BL provides 15 Watts for 230 Vac applications

Coilcraft can also custom engineer a transformer to meet your specific requirements. For free evaluation samples, contact Coilcraft or visit www.coilcraft.com.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance $\pm 10%$ (mH)</th>
<th>DCR max (Ohms)</th>
<th>Leakage inductance $\max$ (µH)</th>
<th>Turns ratio pri : sec : aux</th>
<th>Output power (W)</th>
<th>Output voltage (V)</th>
<th>Output current (A)</th>
<th>Isolation voltage $\max$ (Vrms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A9619-CL</td>
<td>3.2</td>
<td>1.74 (pri)</td>
<td>60</td>
<td>1 : 0.10 : 0.14</td>
<td>6</td>
<td>12</td>
<td>0.58</td>
<td>2000</td>
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<tr>
<td></td>
<td></td>
<td>0.040 (sec)</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>0.278 (aux)</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>B0570-BL</td>
<td>3.4</td>
<td>2.57 (pri)</td>
<td>95</td>
<td>1 : 0.06 : 0.08</td>
<td>12</td>
<td>12</td>
<td>1.25</td>
<td>3000</td>
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<tr>
<td></td>
<td></td>
<td>0.038 (sec)</td>
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<tr>
<td></td>
<td></td>
<td>0.285 (aux)</td>
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</tbody>
</table>

1. When ordering, please specify termination code:

B0570-BL

Termination: L = RoHS compliant tin-silver over tin over nickel over phos bronze. Special order:
T = RoHS tin-silver-copper (95.5/4/0.5) or
S = non-RoHS tin-lead (63/37).

2. Inductance is for the primary, measured at 10 kHz, 0.1 Vrms, 0 Adc.
3. Leakage inductance tested at 100 kHz, 0.1 Vrms
4. Isolation tested between primary and secondary and between primary and auxiliary windings for one minute.
5. Electrical specifications at 25°C.

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

Core material Ferrite

Terminations RoHS tin-silver over tin over copper. Other terminations available at additional cost.

Weight 15.8 – 16.3 g

Ambient temperature –40°C to +85°C

Storage temperature Component: –40°C to +85°C.
Tray packaging: –40°C to +80°C

Resistance to soldering heat Max three 40 second reflows 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 81 parts per tray

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

Dimensions are in inches

Bottom view

Recommended PC Board Layout

US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore +65-6484 8412 sales@coilcraft.com.sg

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