Flyback Transformer

For ON Semiconductor NCP5080 Photoflash Capacitor Charger

- Miniature capacitor charging transformer – 4.6 mm high; 6.2 x 6.8 mm footprint
- 2.7–5.5 Volts input; 350 V output
- 1000 Vrms, one minute isolation from primary to secondary

Core material  Ferrite
Terminations  RoHS tin-silver over copper. Other terminations available at additional cost.
Weight  0.30 g
Ambient temperature  –40°C to +125°C
Storage temperature  Component: –40°C to +125°C. Tape and reel 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°C relative humidity)
Packaging  250/7” reel; 1000/13” reel  Plastic tape: 16 mm wide, 0.35 mm thick, 12 mm pocket spacing, 5.0 mm pocket depth
PCB washing  Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance at 0 A±10% (µH)</th>
<th>Inductance at Ipk3 min (µH)</th>
<th>DCR max (Ohms) pri</th>
<th>Leakage inductance4 max (µH)</th>
<th>Pri : sec turns ratio</th>
<th>Ipk3 (A)</th>
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<tbody>
<tr>
<td>CJ5143-AL_</td>
<td>15.0</td>
<td>13.5</td>
<td>1.0</td>
<td>25</td>
<td>1 : 15</td>
<td>1.2</td>
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1. When ordering, please specify termination and packaging codes:

   **CJ5143-ALC**

   **Termination:**  L = RoHS compliant tin-silver (96.5/3.5) over copper. Special order, added cost:
   T = RoHS tin-silver-copper (95.5/4/0.5) over copper or S = non-RoHS tin-lead (63/37) over copper.

   **Packaging:**  C = 7” machine-ready reel. EIA-481 embossed plastic tape (250 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
   D = 13” machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1000 parts per full reel).
   B = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to C.

2. Inductance measured at 1.0 kHz, 1.0 Vrms.
3. Peak primary current drawn at minimum input voltage.
4. Leakage inductance is for the primary winding with the secondary winding shorted, measured at 100 kHz, 1.0 Vrms.
5. Electrical specifications at 25°C.
Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

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