Flyback Transformer
For ON Semiconductor NCP5080
Photoflash Capacitor Charger

- Miniature capacitor charging transformer – 4.6 mm high; 6.2 × 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 refows 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 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 number1</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>
</tr>
</thead>
<tbody>
<tr>
<td>CJ5143-AL_</td>
<td>15.0</td>
<td>13.5</td>
<td>1.0</td>
<td>25</td>
<td>0.3</td>
<td>1:15</td>
</tr>
</tbody>
</table>

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).
B = Less than full reel. In tape, but not machine ready.
To have a leader and trailer added ($25 charge), use code letter C instead.
D = 13” machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1000 parts per full reel).

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.
5. Electrical specifications at 25°C.
Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

![Recommended Land Pattern](image)

Dimensions are in inches mm