

# 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 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)

**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](#).

Part number <sup>1</sup>	Inductance at 0 A <sup>2</sup> ±10% (µH)	Inductance at I <sub>pk</sub> <sup>3</sup> min (µH)	DCR max (Ohms)		Leakage inductance <sup>4</sup> max (µH)	Pri : sec turns ratio	I <sub>pk</sub> <sup>3</sup> (A)
			pri	sec			
CJ5143-AL_	15.0	13.5	1.0	25	0.3	1 : 15	1.2

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.

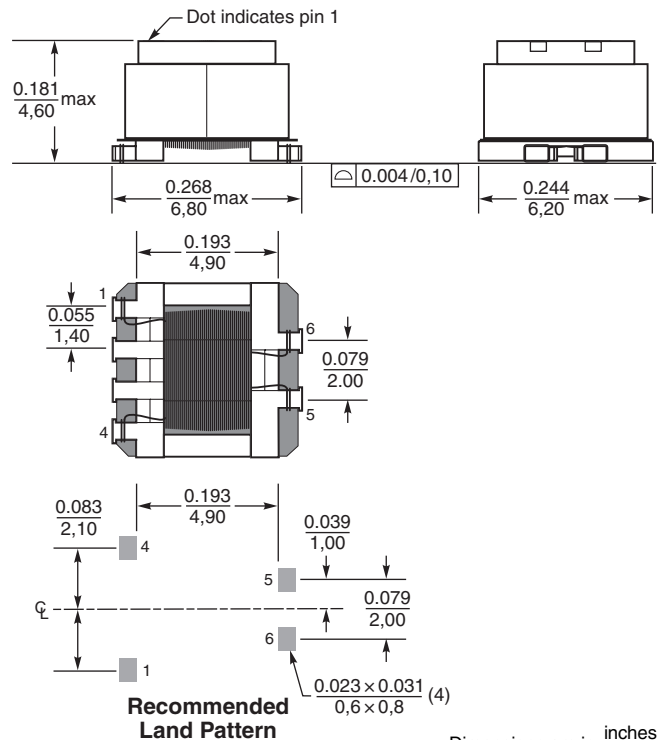
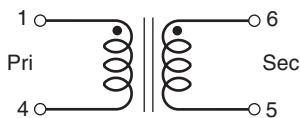
2. Inductance measured at 1.0 kHz, 1.0 Vrms.

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.



Dimensions are in inches / mm



**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

Document 659 Revised 07/28/21

© Coilcraft Inc. 2021

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.