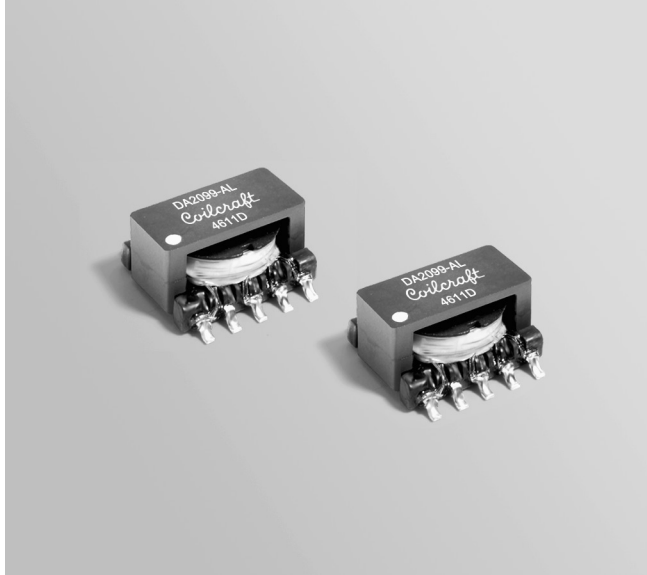


# Gate Drive Transformer

For ON Semiconductor  
NCP1652 and NCP4302



- Designed for ON Semiconductor for use with the NCP1652 PFC Controller and the NCP4302 Flyback Controller.
- Requires only 1.5 cm<sup>2</sup> of board space
- 1500 Vrms primary to secondary isolation
- Can be used from 20 kHz to 250 kHz.

**Core material** Ferrite

**Terminations** RoHS compliant tin-silver (96.5/3.5) over tin over nickel over phos bronze. Other terminations available at additional cost.

**Weight** 1.35 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** 500/13" reel; Plastic tape: 24 mm wide, 0.36 mm thick, 20 mm pocket spacing, 6.13 mm pocket depth

**PCB washing** Tested with pure water or alcohol only. For other solvents, see Doc787\_PCB\_Washing.pdf

Part number <sup>1</sup>	Turns ratio	Primary inductance <sup>2</sup> ±20 % (mH)	Leakage inductance <sup>3</sup> max (µH)	Primary DCR max (Ohms)	Secondary DCR max (Ohms)	Volt-time product <sup>4</sup> (V-µsec)	Capacitance pri to sec <sup>5</sup> max (pF)
DA2099-AL_	1 : 1	3.79	13.0	2.30	2.85	221	13.0

1. When ordering, please specify **packaging** code:

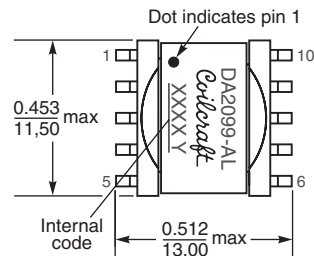
**DA2099-ALD**

**Packaging:** D = 13" machine ready reel. EIA-481 embossed plastic tape (500 per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

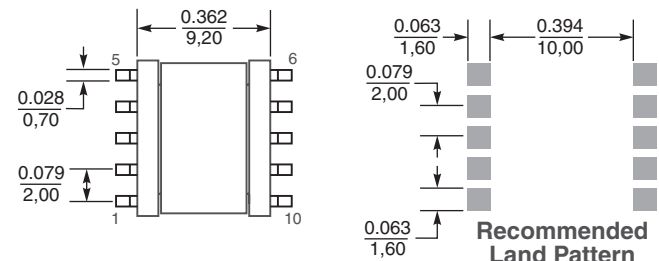
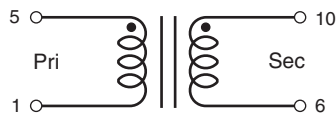
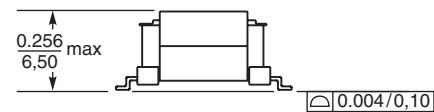
**B** = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to D.

2. Inductance measured at 100 kHz, 0.3 Vrms, 0 Adc
3. Leakage inductance measured at 100 kHz, 0.3 Vrms with secondary pins shorted.
4. Based on Bs at the core at 25°C and number of turns of the primary.
5. Capacitance measured at 100 kHz, 0.3 Vrms.
6. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Parts manufactured prior to November 2011 may be marked differently.



Dimensions are in  $\frac{\text{inches}}{\text{mm}}$