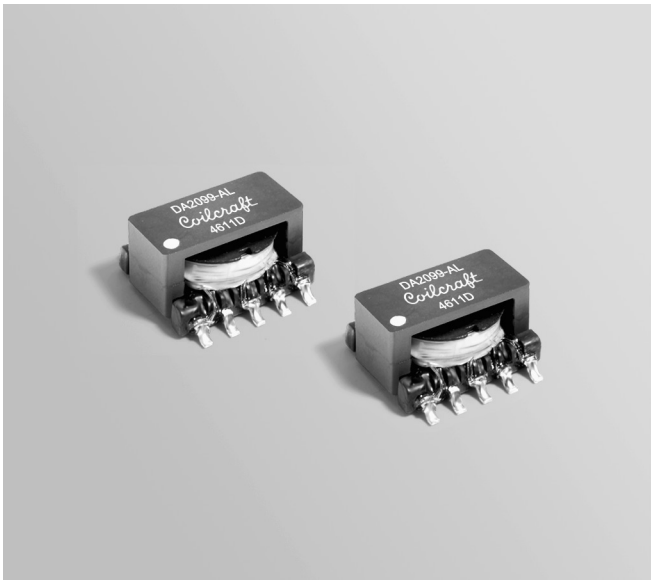
Gate Drive Transformer

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 cm² 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)

Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

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

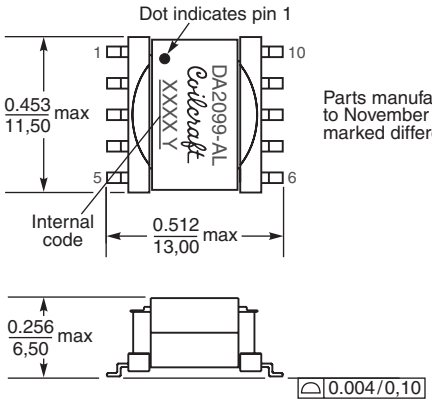
Part number[1]	Turns ratio	Primary inductance[2] ±20 % (mH)	Leakage inductance[3] max (µH)	Primary DCR max (Ohms)	Secondary DCR max (Ohms)	Volt-time product[4] (V-µsec)	Capacitance pri to sec[5] max (pF)
DA2099-AL_	1 : 1	3.79	13.0	2.30	2.85	221	13.0

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

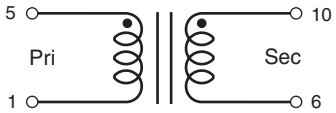
   DA2099-ALD

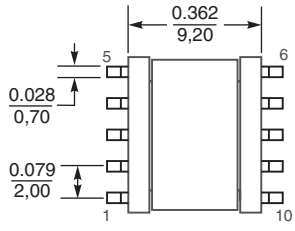
   Packaging: **D** = 13″ machine ready reel. EIA-481 embossed plastic tape (500 per full reel).
   B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter D instead.
2. Inductance measured at 100 kHz, 0.3 Vrms, 0 Adc
3. Leakage inductance measured at 100 kHz, 0.3 Vrms with secondary pins shorted.
4. Based on Bsat of 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.

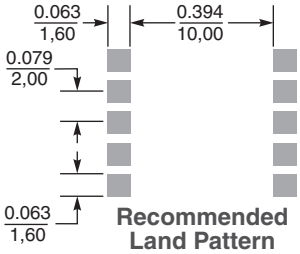
Refer to Doc 362 “Soldering Surface Mount Components” before soldering.



Parts manufactured prior to November 2011 may be marked differently.







Dimensions are in inches / mm

Coilcraft
www.coilcraft.com

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