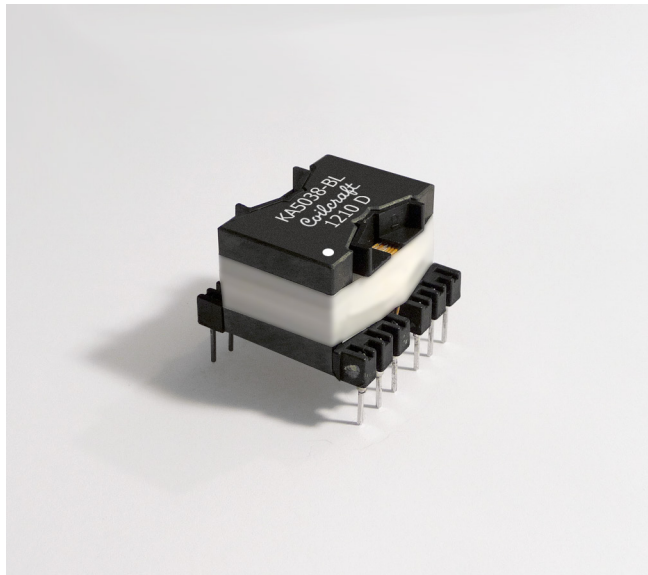


# Flyback Transformer

For ON Semiconductor  
NCP1236 PWM Controller and  
NCP4305FBDAP AC/DC Adapter



- Flyback transformer for ON Semiconductor NCP1236 Fixed Frequency PWM Controller and NCP4305FBDAP 65W Off-Line AC/DC Adapter
- Referenced on Akros Silicon Application Note AN006
- Universal input; 66 W output
- 3000 Vrms, one minute isolation primary to secondary windings
- AEC-Q200 Grade 3 (–40°C to +85°C)
- Copper shield minimizes EMI radiation

**Core material** Ferrite

**Terminations** RoHS tin-silver over tin over copper over steel. Other terminations available at additional cost.

**Weight** 60.2 g

**Ambient temperature** –40°C to +85°C with (40°C rise) Irms current

**Maximum part temperature** +125°C. (ambient + temp rise). [Derating](#).

**Storage temperature** Component: –40°C to +125°C.

Tray packaging: –40°C to +125°C

**Moisture Sensitivity Level (MSL)** 1 (unlimited floor life at <30°C / 85% relative humidity)

**Failures in Time (FIT) / Mean Time Between Failures (MTBF)**

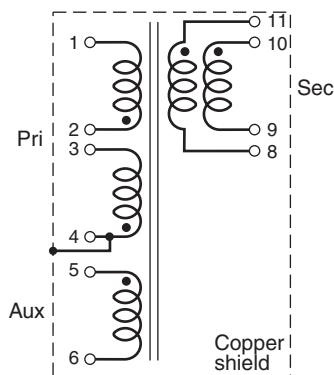
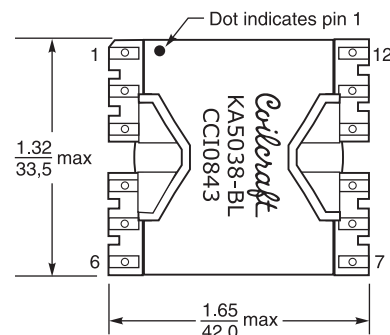
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

**Packaging** 36 per tray

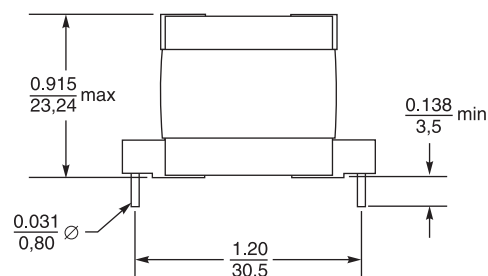
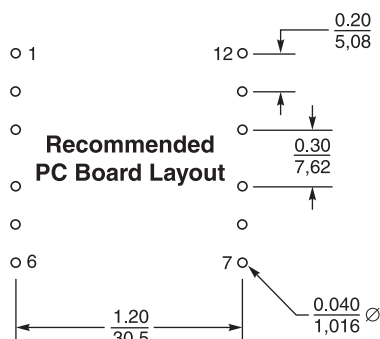
**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787\\_PCB\\_Washing.pdf](#).

Part number	Inductance at 0 A <sup>1</sup> ±10% (μH)	Inductance at I <sub>pk</sub> <sup>2</sup> min (μH)	DCR max (Ohms) <sup>3</sup>			Leakage inductance <sup>4</sup> max (μH)	Turns ratio <sup>5</sup> pri : sec : aux	I <sub>pk</sub> <sup>2</sup> (A)	Output <sup>6</sup>
			pri	sec	aux				
KA5038-BL	560	480	0.198	0.007	0.236	5.6	1:0.188:0.156	2.8	19 V, 3.5 A

1. Inductance is measured at 50 kHz, 0.1 Vrms.
2. Peak primary current drawn at minimum input voltage.
3. DCR is with the primary windings connected in series and the secondary windings connected in parallel.
4. Leakage inductance is for both windings of the primary with the secondary windings shorted.
5. Turns ratios are with the primary windings connected in series and the secondary windings connected in parallel.
6. Output is with the secondary windings connected in parallel. Output of the aux winding is 15.5V V, 20 mA.
7. Electrical specifications at 25°C.



Primary windings to be connected in series and secondary windings to be connected in parallel on PC board.



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



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07/22/19

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