



# Flyback Transformer

For Maxim MAX5941A  
PoE Interface/PWM Controller



- Dual-output continuous-current flyback transformer
- Operates with 18 – 72 Volts input
- 1500 Vrms isolation between the primary and the secondary

**Core material** Ferrite

**Terminations** RoHS tin-silver over tin over nickel over phosphorus bronze. Other terminations available at additional cost.

**Weight** 4.9 g

**Ambient temperature**  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

**Storage temperature** Component:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ .  
Packaging:  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$

**Resistance to soldering heat** Max three 40 second reflows at  $+260^{\circ}\text{C}$ , parts cooled to room temperature between cycles

**Moisture Sensitivity Level (MSL)** 1 (unlimited floor life at  $<30^{\circ}\text{C}$  / 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** 200 per 13" reel Plastic tape: 44 mm wide, 0.35 mm thick, 28 mm pocket spacing, 9.6 mm pocket depth

**PCB washing** Only pure water or alcohol recommended

Part number <sup>1</sup>	Inductance at 0 A <sup>2</sup> $\pm 10\%$ ( $\mu\text{H}$ )	Inductance at I <sub>pk</sub> <sup>3</sup> min ( $\mu\text{H}$ )	DCR max (Ohms)					Leakage inductance <sup>4</sup> max ( $\mu\text{H}$ )	Turns ratio N <sub>1</sub> : N <sub>2</sub> : N <sub>3</sub> : N <sub>4</sub> : N <sub>5</sub>	I <sub>pk</sub> <sup>3</sup> (A)
			N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	N <sub>4</sub>	N <sub>5</sub>			
C1154-BL <sub>-</sub>	255.0	229.5	0.335	0.020	0.017	0.200	0.745	5.0	1:0.1:0.075:0.125:0.425	0.25

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

**C1154-BL D**

**Packaging:** D = 13" machine ready reel. EIA-481 embossed plastic tape (200 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 D instead.

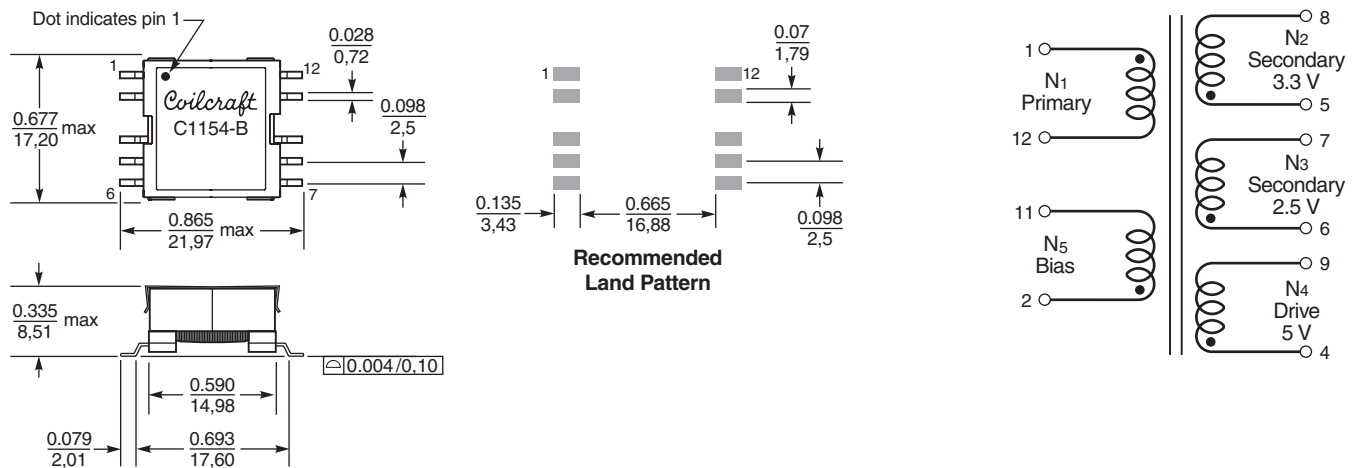
2. Inductance is for the primary, measured at 275 kHz, 1.0 Vrms.

3. Peak primary current drawn at minimum input voltage.

4. Leakage inductance is for the primary winding with the secondary windings shorted.

5. Electrical specifications at 25°C.

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



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