

Flyback Transformer For Maxim MAX5941A PoE Interface/PWM Controller



- Designed for IEEE 802.3af-compliant PoE applications
- Operates with 32-56 Volts input
- 1500 Vrms, one minute isolation between the primary and the secondary

Core material Ferrite

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

Weight 5.7 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 200 per 13" reel Plastic tape: 44 mm wide, 0.37 mm thick, 28 mm pocket spacing, 9.0 mm pocket depth

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

Part	Inductance at 0 A ²	Inductance at Ipk ³	DCR max (Ohms) ⁴			Leakage inductance5	Turns ratio ⁶		Ipk ³	
number ¹	±5% (µH)	min (μH)	pri	sec	bias	max (µH)	pri:sec	pri:bias	(A)	Output ⁷
C1099-AL_	133.0	126.0	0.283	0.013	0.480	3.5	1:0.13	1:0.57	0.9	3.3V, 2.5A

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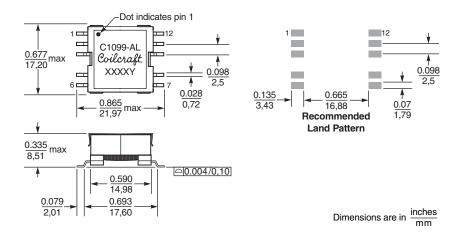
1. When ordering, please specify packaging code:

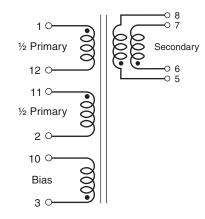
C1099-ALD

- Packaging: D = 13" machine ready reel. EIA-481 embossed plastic tape (200 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 300 kHz, 1.0 Vrms.
- 3. Peak primary current drawn at minimum input voltage.

- 4. Primary DCR is measured with the windings connected in series. Secondary DCR is measured with the windings connected in parallel.
- 5. Leakage inductance is for the primary winding with the secondary wind-
- 6. Turns ratio is for the primary connected in series and the secondary connected in parallel.
- 7. Output of the secondary is with the windings connected in parallel. Bias winding output is 14 V.
- 8. Electrical specifications at 25°C.

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





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

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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

