



**NEW!**

# SMT Power Transformer

For Linear Technology LT1725  
Isolated Flyback Controller



- Can be used in isolated and nonisolated designs
- Operates with 36 – 72 Volts input; can be used for PoE.
- 1500 Vrms 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** 5.1 g

**Ambient temperature** –40°C to +125°C

**Storage temperature** Component: –55°C to +125°C.  
Packaging: –55°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)

**Mean Time Between Failures (MTBF)** 26,315,789 hours

**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>	Power	L at 0 A <sup>2</sup> ±10% (µH)	L at I <sub>pk</sub> <sup>3</sup> min (µH)	DCR max (Ohms)			Leakage L max <sup>5</sup> (µH)	Turns ratio		I <sub>pk</sub> <sup>3</sup> (A)	Output <sup>7</sup>
				pri	sec <sup>4</sup>	bias		pri : sec <sup>6</sup>	pri : bias		
C1048-AL_	13 W	94.0	84.6	0.210	0.01	0.453	3.9	1 : 0.12	1 : 0.47	1.2	5 V, 2 A

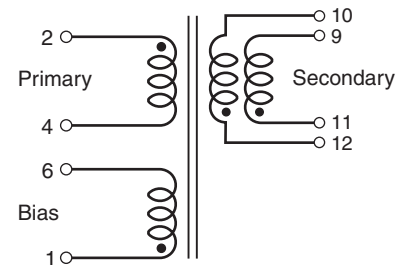
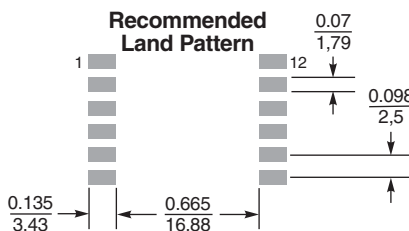
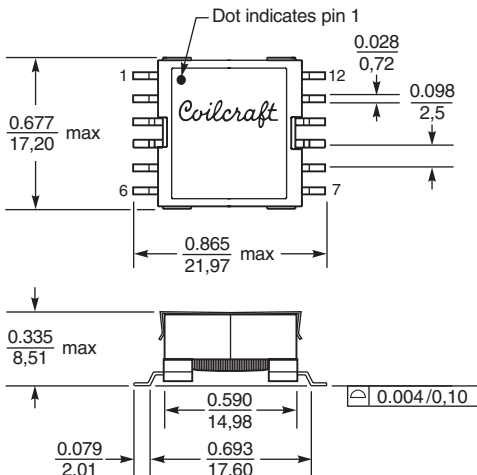
1. When ordering, please specify **packaging** code:

**C1048-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.

- Inductance is measured at 250 kHz, 0.3 Vrms, 0 Adc.
- Peak primary current drawn at minimum input voltage.
- DCR is for both windings of the secondary connected in parallel.
- Leakage inductance is for the primary winding with the secondary windings shorted.
- Turns ratio is with the secondary windings connected in parallel.
- Output is with the secondary windings connected in parallel. Output of the bias winding with a 15 V, 0.2 A.
- Operating temperature range –40°C to +125°C.
- Electrical specifications at 25°C.



Secondary windings to be connected in parallel on PC board

**Coilcraft**<sup>®</sup>

Specifications subject to change without notice.  
Please check our website for latest information.

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