

SMT Power Transformer For Linear Technology LT1725 Isolated Flyback Controller



- · Can be used in isolated and non-isolated designs
- Operates with 36-72 Volts input; can be used for PoE.
- 1500 Vrms, one minute isolation between the primary and the secondary

Core material Ferrite

Terminations RoHS tin-silver (96.5/3.5) over tin over nickel over phos bronze. Other terminations available at additional cost.

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, 0.35 mm thick, 28 mm pocket spacing, 9.6 mm pocket depth

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

Part		L at 0 A ²	L at Ipk ³	DCR max (Ohms)			L max ⁵	Turns ratio		Ipk ³	
number ¹	Power	±10%(µH)	min (μH)	pri	sec ⁴	bias	(µH)	pri:sec6	pri:bias	(A)	Output ⁷
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:

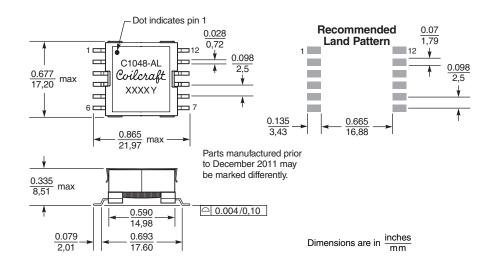
C1048-ALD

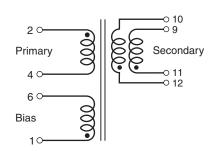
- Packaging: D = 13" machine ready reel. EIA-481 embossed plastic tape (200 per full reel).
 - **B** = Less than full reel. In tape, but not machine readv. To have a leader and trailer added (\$25 charge), use code letter D instead.
- 2. Inductance is for the primary, measured at 250 kHz, 0.3 Vrms, 0 Adc.
- 3. Peak primary current drawn at minimum input voltage.

- 4. 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.
- 8. Operating temperature range -40°C to +125°C.
- 9. Electrical specifications at 25°C.

Lookago

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





Secondary windings to be connected in parallel on PC board



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