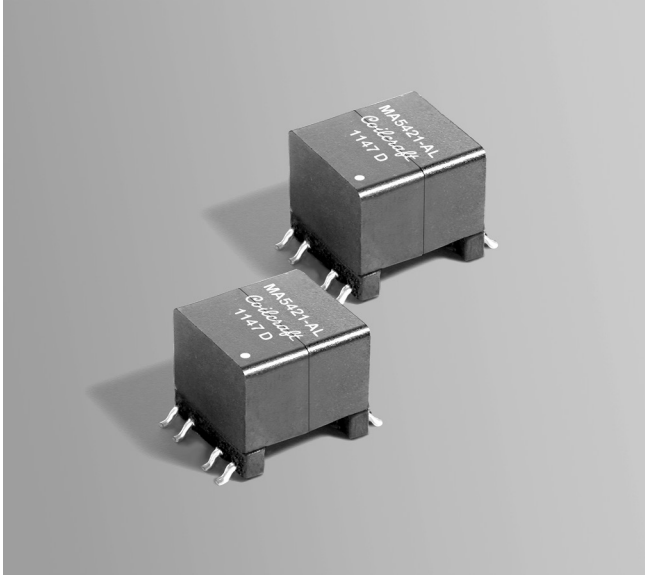




Flyback Transformer

For Linear Technology
LTC3300-1 Cell Balancer



- Flyback transformer developed for Linear Technology LTC3300-1 Bidirectional Cell Balancer
- 1500 Vrms primary to secondary isolation; 500 Vrms isolation between windings of 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.

Weight 6.0 g

Ambient temperature -40°C to +85°C with Irms current

Maximum part temperature +125°C (ambient + temp rise)

Storage temperature Component: -40°C to +85°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 175 per 13" reel Plastic tape: 32 mm wide, 0.5 mm thick, 28 mm pocket spacing, 12.93 mm pocket depth

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

Part number ¹	Inductance at 0 A ² ±15% (μH)	Inductance at Ipk ³ min (μH)	DCR max (Ohms) ⁴		Leakage inductance max (μH) ⁵	Turns ratio ⁶ pri : sec	Ipk ³ (A)	Irms ⁷ (A)
			pri	sec				
MA5421-AL_	3.4	2.8	0.009	0.011	0.15	1 : 1	10	3.3

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

MA5421-ALD

Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (175 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 100 kHz, 0.1 Vrms, 0 Adc.

3. Ipk is peak primary current drawn at minimum input voltage.

4. DCR is for the windings connected in parallel.

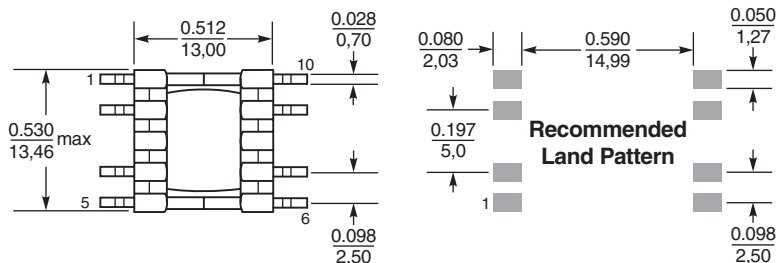
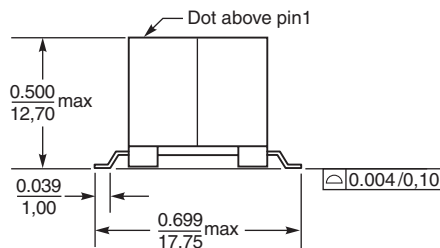
5. Leakage inductance is for the primary windings connected in parallel and is measured with the secondary windings shorted.

6. Turns ratio is with the primary windings and the secondary windings connected in parallel.

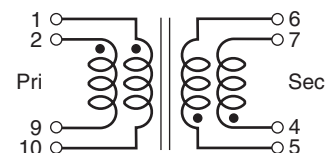
7. Current that causes a 40°C rise from 25°C ambient, tested with continuous current flowing through all windings. This information is for reference only and does not represent absolute maximum ratings.

8. Electrical specifications at 25°C.

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



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



Primary windings and secondary windings to be connected in parallel on the PCB



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