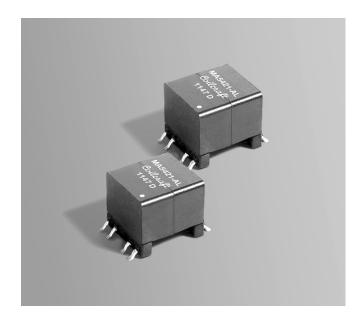


Flyback Transformer For Linear Technology LTC3300-1 Cell Balancer



- 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 $<30^{\circ}$ 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 number¹ | Inductance at 0 A ² ±15% (µH) | Inductance at Ipk³ min (µH) | DCR max | sec (Ohms) ⁴ | Leakage inductance max (µH) ⁵ | Turns ratio ⁶ pri : sec | Ipk ³ (A) | Irms ⁷ (A) | |
|-----------------|--|-----------------------------------|---------|-------------------------|--|---------------------------------------|---|--------------------------|--|
| MA5421-AL_ | 3.4 | 2.8 | 0.009 | 0.011 | 0.15 | 1:1 | 10 | 3.3 | |

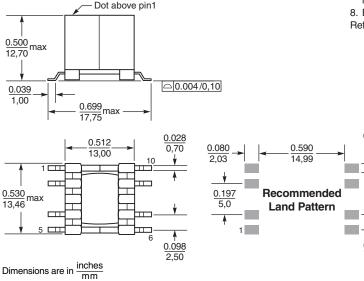
1. When ordering, please specify **packaging** code:

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



1 0 6 7 7 Sec 9 0 5 5

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



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risk applications without prior Coilcraft approval.
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