



Flyback Transformer

For National Semiconductor
LM5071 & LM5072 PD Controllers



- Dual-output flyback transformer for Power over Ethernet
- Operates in continuous mode at 250 kHz with 14 –60 V input
- 2000 Vrms isolation from primary and auxiliary to secondaries

Core material Ferrite

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

Weight 6.35g

Ambient temperature –40°C to +85°C

Storage temperature Component: –40°C to +85°C.

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 Only pure water or alcohol recommended

Part number ¹	L at 0 A ² ±10% (μH)	L at Ipk ³ min (μH)	DCR max (Ohms)	Leakage L ⁴ max (μH)	Turns ratios	Ipk ³ (A)	Outputs
DA2257-AL_	35.0	30.0	0.225 (aux) 0.138 (gate) 0.010 (sec 1) 0.018 (sec 2) 0.062 (pri)	0.95	2:1 (pri:aux) 3.6:1 (pri:gate) 6:1 (pri:sec1) 3.6:1 (pri:sec 2)	2.7	10 V, 0.05 A (aux) 5.5 V, 0.05 A (gate) 3.3 V, 2.0 A (sec 1) 5.0 V, 1.0 A (sec 2)

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

DA2257-AL D

Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (175 parts per full reel).

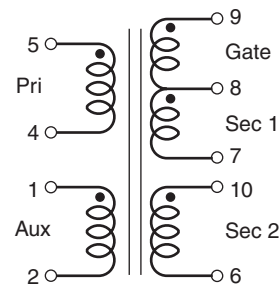
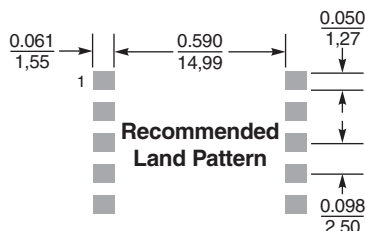
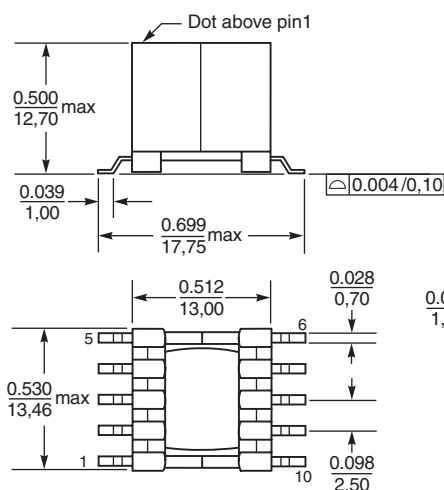
B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

2. Inductance is for the primary, measured at 250 kHz, 0.2 Vrms, 0 Adc.

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

4. Leakage inductance is for the primary winding with all other pins shorted.

5. Electrical specifications at 25°C.



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

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