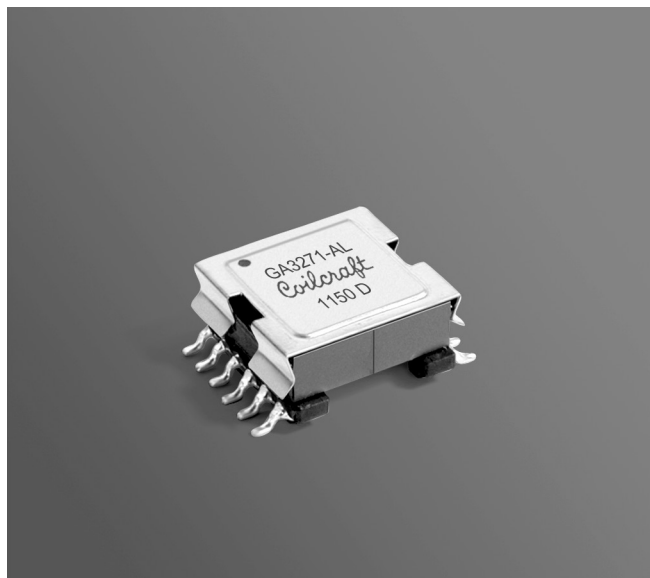




Flyback Transformer

For Maxim MAX5941B
PWM Controller



- Flyback transformer for 13 W PoE applications
- Designed to operate with 30 – 60 V input at 275 kHz
- 1500 Vrms, one minute isolation from primary to secondary windings

Core material Ferrite

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

Weight 5.5 g

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, 0.4 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 number ¹ | Power (W) | Inductance at 0A ² ±10% (μH) | Inductance at I _p ³ min (μH) | DCR max (Ohms) ⁴ | | | Leakage inductance ⁵ max (μH) | Turns ratios ⁶ | | I _p ³ (A) | Output ⁷ |
|--------------------------|-----------|---|--|-----------------------------|------|-------|--|---------------------------|----------|---------------------------------|---------------------|
| | | | | pri | sec | bias | | pri:sec | pri:bias | | |
| GA3271-AL_ | 13 | 117.5 | 104.0 | 0.201 | 0.06 | 0.335 | 0.815 | 1:0.457 | 1:0.571 | 1.0 | 12V, 1.0A |

1. When ordering, please specify **termination** and **packaging** codes:

GA3271-ALD

Termination: L = RoHS tin-silver over tin over nickel over phos bronze.

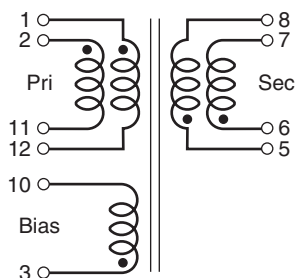
Special order: T = RoHS tin-silver-copper (95.5/4/0.5) or S = non-RoHS tin-lead (63/37).

Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (200 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.

- Inductance is for the primary, measured at 250 kHz, 0.1 Vrms.
- Peak primary current drawn at minimum input voltage.
- DCR for the primary and for the secondary are with the windings connected in parallel.
- Leakage inductance is for the primary windings with the secondary windings shorted.
- Turns ratios are with the primary the secondary windings connected in parallel.
- Output of the secondary is with the windings connected in parallel. Bias winding output is 15 V, 20 mA.
- Electrical specifications at 25°C.

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



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

Recommended Land Pattern

