

## Audio Output Transformer LL7401

LL7401 is an audio output transformer for balanced drive.

In LL7401 a five section winding structure is used. This results in a very low leakage inductance without high capacitive coupling and low isolation voltage, which are drawbacks of the bifilar winding technique.

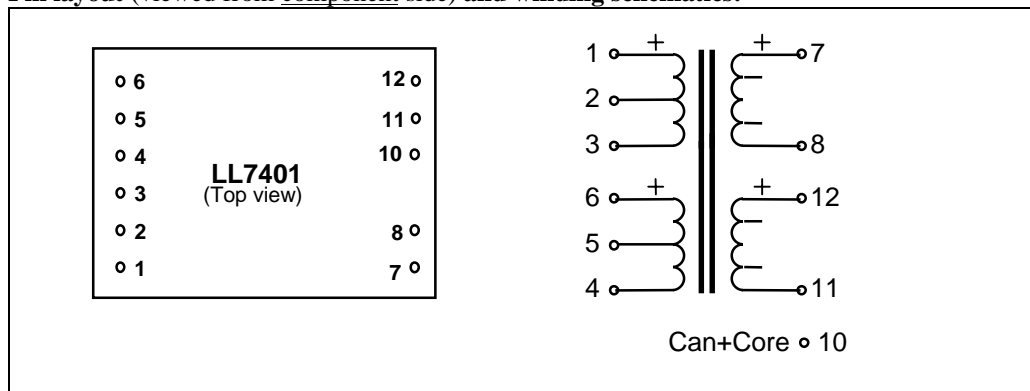
**Turns ratio:**

1 + 1: 1 + 1

**Dims (Length x Width x Height above PCB (mm)):**

47 x 34 x 17

**Pin layout (viewed from component side) and winding schematics:**



**Spacing between pins:**

5.08 mm (0.2")

**Spacing between rows of pins:**

35.56 mm (1.4")

**Weight:**

92 g

**Rec. PCB hole diameter:**

1.5 mm

**Static resistance of each primary:**

9  $\Omega$

**Static resistance of each secondary:**

9  $\Omega$

**Leakage inductance of secondaries (sec. in series):**

50  $\mu$ H

**No-load impedance:**

>700  $\Omega$  @ 50 Hz, +20 dBU

**Optimum source impedance:**

Minus 9  $\Omega$  (See application below)

**Balance of output (according to IRT, source < 10  $\Omega$ , Load 600  $\Omega$ ):**

> 60 dB

*Note! Performance figures below are obtained using mixed feedback drive circuits. (See application example). Otherwise use lowest possible source impedance.*

**Distortion (connection as application example below, load 600  $\Omega$ )**

0.05 % @ +22 dBU, 50 Hz

**Frequency response (@ 10 dBU, connections as below, load 600  $\Omega$ ):** 20 Hz -- 80 kHz +/- 0.3 dB

**Voltage loss across transformer (at midband with 600  $\Omega$  load):**

0 dB

**Isolation between primary and secondary windings / between windings and core:**

4 kV / 2 kV

**Application example with mixed feedback: (NOTE! This application is covered by a German patent DE 29 01 567 with application day 13.1.79, valid as far as we know in Germany only.)**

