

## High Level Audio Output Transformer LL1585

LL1585 is a high level audio line output transformer for balanced or unbalanced drive. The transformer is built from two three-section coils, with primaries and secondaries separated by electrostatic shields, and a audio C-core of our own production. The transformer is housed in a mu-metal housing.

The LL1585 is (as all output transformers) ideally used with mixed feedback drive circuits. (See separate paper for mixed feedback design principles).

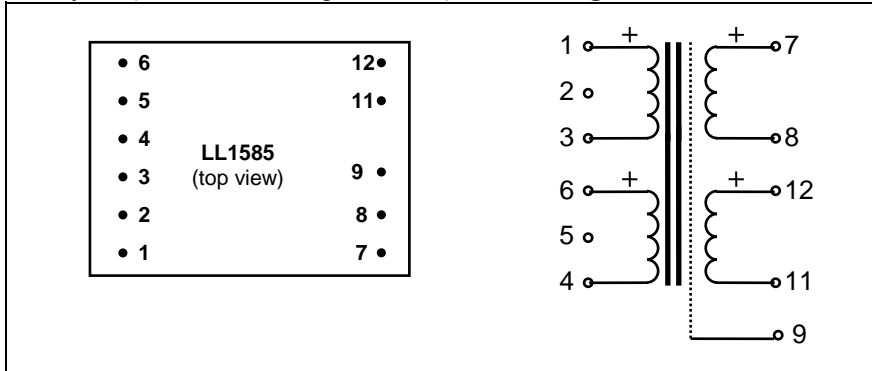
**Turns ratio:**

1 + 1 : 1 + 1

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

47 x 34 x 21

**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:**

130 g

**Core:**

Audio C-core

**Housing:**

Mu-metal

**Rec. PCB hole diameter:**

1.5 mm

**Static resistance of each primary:**

64 Ω

**Static resistance of each secondary:**

64 Ω

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

0.4 mH

**No-load impedance, typically (primaries in series):**

6 kΩ @ 50 Hz, 15V RMS.

**Optimum source impedance:**

Minus 128 Ω (Mixed feedback drv)

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

> 60 dB

**Maximum output level before saturation (sec. in series, load 600 Ω)**

+ 28 dBu @ 20 Hz

**Frequency response (source 10 Ω, load 600 Ω):**

10 Hz -- 100 kHz +/- 0.3 dB

**Loss across transformer (at midband with 600 Ω load):**

3 dB

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

4 kV / 2 kV

### Suggested use

