

## Audio Split Transformer LL1560

LL1560 is an audio transformer specially built for active splitting.

Each of the four secondary windings is surrounded by primary winding parts. This results in a low leakage inductance and ensures that output signal is maintained on three of the secondary windings even if one is short-circuited, provided of course that driving power is available.

The primary windings should be used in parallel.

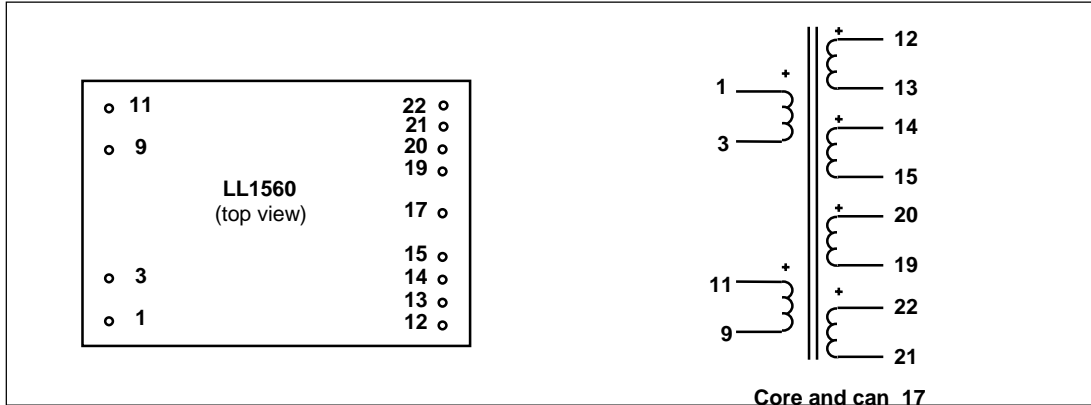
**Turns ratio:**

2 + 2 : 1 + 1 + 1 + 1

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

47 x 34 x 23

**Pin Layout (viewed from component side) and Windings Schematics (simplified):**



**Housing:**

Mu-metal

**Core:**

Audio C-core

**Spacing between pins:**

2.54 mm (0.1")

**Spacing between rows of pins:**

35.56 mm (1.4")

**Weight:**

130 g

**Rec. PCB hole diameter:**

1.5 mm

**Static resistance of each primary (average):**

120 Ω

**Static resistance of each secondary (average):**

55 Ω

**Secondary leakage inductance (secondaries in series, primary short circuited):**

< 1 mH

**Max. secondary level (each secondary)**

+ 26 dBu @ 50 Hz

**No-load primary impedance (primaries in parallel, primary level):**

> 1 kΩ @ 50 Hz, +20 dBu

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

> 60 dB

**Frequency response**

(source 10 Ω, each sec. loaded with 600 Ω, 0 dBu sec. level):

20 Hz - 50 kHz +/- 0.5 dB

**Isolation between windings / between windings and shields:**

4 kV / 2 kV

### Driving circuitry, mixed feedback, 2:1+1+1+1, suggested by A. Offenberg, NRK

