Audio Output Transformer LL1582

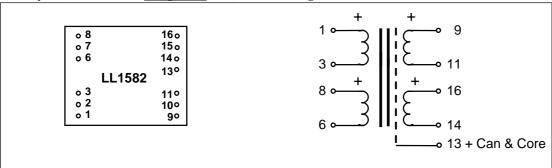
LL1582 is an audio output transformer for balanced or unbalanced drive, with the following features:

- 1. Pin compatible with the popular LL2811
- 2. With internal shields to improve common mode passthrough rejection. This is important in analog output from digital systems.
- 3. Suggested use: 2:1 (secondaries in parallel) with e.g. NE5532 op amps for low noise.
- 4. Precision made audio C core for small size.
- 5. Two-coil structure and mu-metal housing for high magnetic noise immunity.
- 6. Designed to fit three in a row across a Euroboard.

The secondaries can be connected in parallel for low output impedance or in series for high output level.

Turns ratio: 1 + 1: 1 + 1Dims: (Length x Width x Height above PCB (mm)) $31 \times 26 \times 23$

Pin Layout (viewed from $\underline{component}$ side) and Windings Schematics:



Spacing between pins:

Spacing between rows of pins:

Weight:

Rec. PCB hole diameter:

Static resistance of <u>each</u> primary (average): Static resistance of <u>each</u> secondary (average):

Max. primary level (primaries in series)

Leakage inductance (windings in series):

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

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

Output windings in parallel Output windings in series

Frequency response (source 10Ω , load 600Ω , 0 dBU):

Isolation between primary and secondary windings/between windings and shield:

2.54 mm (0.1")

22.86 mm (0.9")

65 g 1.5 mm

45 Ω 45 Ω

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+30 dBU @ 50 Hz

< 1 mH

 $>750~\Omega$ @ 50 Hz, +20 dBU

60 dB >50 dB

 $10\ Hz$ -- $100\ KHz$ +/- $0.3\ dB$

 $4\;kV$ / $2\;kV$

Suggested design of driving circuitry, mixed feedback, 2:1, suggested by A. Offenberg, NRK

