## Audio Output Transformer <br> 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:

Dims: (Length x Width x Height above PCB (mm)) Pin Layout (viewed from component side) and Windings Schematics:

|  |  |
| :---: | :---: |

## Spacing between pins:

Spacing between rows of pins:
Weight:
Rec. PCB hole diameter:
Static resistance of each primary (average):
Static resistance of each 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 $<10 \Omega, \operatorname{Load} 600 \Omega$ )
Output windings in parallel
Output windings in series
Frequency response (source $10 \Omega$, load $600 \Omega, 0 \mathrm{dBU}$ ):
Isolation between primary and secondary windings/between windings and shield:
$2.54 \mathrm{~mm}\left(0.1^{\prime \prime}\right)$
22.86 mm ( 0.9 ")

65 g
1.5 mm
$45 \Omega$
$45 \Omega$
$+30 \mathrm{dBU} @ 50 \mathrm{~Hz}$
$<1 \mathrm{mH}$
$>750 \Omega @ 50 \mathrm{~Hz},+20 \mathrm{dBU}$

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


