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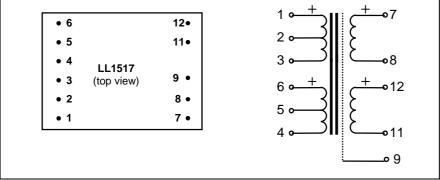
## **Audio Output Transformer** LL1517

LL1517 is an audio output transformer for balanced or unbalanced drive. The transformer is built from two threesection 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 LL1517 has sufficient low copper resistance to meet broadcast specifications in a conventional drive configuration, but is (as all output transformers) ideally used with mixed feedback drive circuits. (See separate paper for mixed feedback design principles).

**Turns ratio:** Dims (Length x Width x Height above PCB (mm)): 1 + 1 : 1 + 147 x 34 x 18

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



**Spacing between pins:** 

**Spacing between rows of pins:** 

Weight:

Core:

Housing:

Rec. PCB hole diameter:

Static resistance of each primary:

Static resistance of each secondary:

Leakage inductance of secondaries (sec. in series):

No-load impedance:

**Optimum source impedance:** 

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

**Maximum output level before saturation** (sec. in series, load 600  $\Omega$ )

**Distortion** (achieved with mixed feedback drive circuit, load 600  $\Omega$ )

**Frequency response** (source  $10 \Omega$ , load  $600 \Omega$ ):

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

Isolation between primary and secondary windings / between

windings and core:

5.08 mm (0.2")

35.56 mm (1.4")

105 g

Audio C-core

Mu-metal

1.5 mm

 $9.2 \Omega$ 

9.5 Ω

 $0.3 \, \text{mH}$ 

>1k $\Omega$  @ 50 Hz, +20 dBU

Minus 18  $\Omega$  (See above)

> 60 dB

+ 24 dBU @ 30 Hz

< 0.03 % @ 20 dBU, 30Hz

10 Hz -- 80 kHz +/- 0.3 dB

0.3 dB

4 kV / 2 kV

## Suggested use

