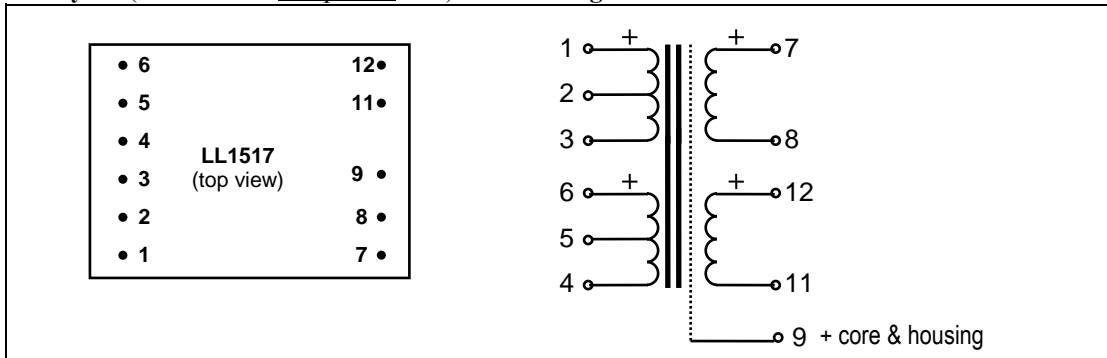


Audio Output Transformer LL1517

LL1517 is an audio 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 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: 1 + 1 : 1 + 1
Dims (Length x Width x Height above PCB (mm)): 47 x 34 x 18
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:	105 g
Core:	Audio C-core
Housing:	Mu-metal
Rec. PCB hole diameter:	1.5 mm
Static resistance of each primary:	9.2 Ω
Static resistance of each secondary:	9.5 Ω
Leakage inductance of secondaries (sec. in series):	0.3 mH
No-load impedance:	Typically > 600Ω @ 50 Hz, +20 dBU
Optimum source impedance:	Minus 18 Ω (See above)
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)	+ 24 dBU @ 30 Hz
Distortion (achieved with mixed feedback drive circuit, load 600 Ω)	< 0.03 % @ 20 dBU, 30Hz
Frequency response (source 10 Ω, load 600 Ω):	10 Hz -- 80 kHz +/- 0.3 dB
Loss across transformer (at midband with 600 Ω load):	0.3 dB
Isolation between primary and secondary windings / between windings and core:	4 kV / 2 kV

Suggested use

