

High Level Stepup Line Input Transformer LL1922

LL1922 is a high-level input transformer similar to the UTC LS-10. Thus it is designed for step-up input from 600 ohm sources. To reach the LS-10 freq. response in 1:8 applications with nondifferential amplifier input, the internal Faraday shield must be tied to one of the source lines (the UTC LS-10 does not have any Faraday shield).

The two coils structure results in a high immunity to external magnetic fields from e.g. power supplies and motors.

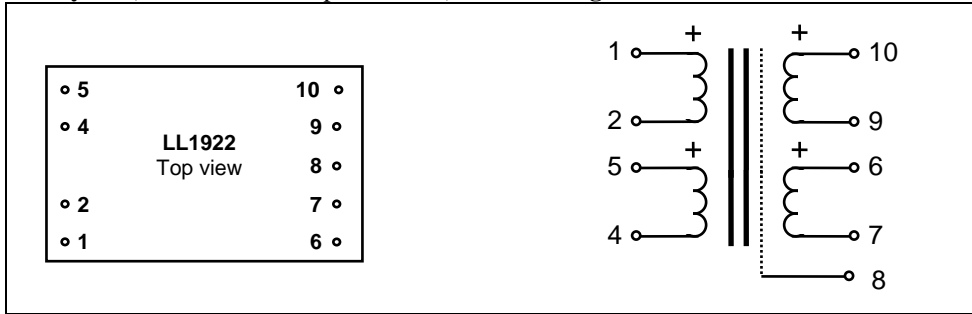
Primary and secondary windings are separated by electrostatic shields. The core is a high permeability mu metal core.

The transformer is housed in a mu-metal can.

Turns ratio:

1 + 1 : 4 + 4

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



Dimensions (L x W x H above PCB, in mm)

47 x 28 x 24

Spacing between pins

5.08 mm (0.2")

Spacing between rows of pins

35.56 mm (1.4")

Rec. PCB hole diameter:

1.5 mm

Weight:

115 g

Static resistance of each primary:

60Ω

Static resistance of each secondary:

730Ω

Distortion (primaries connected in series, source impedance 600Ω, load 47k. Primary signal level):

+ 21 dBu 0.1% @ 50 Hz

+ 26 dBu < 1 % @ 50 Hz

Distortion (primaries connected in parallel source impedance 600Ω, load 47k. Primary signal level):

+ 11 dBu 0.1% @ 50 Hz

+ 19 dBu < 1 % @ 50 Hz

Frequency response (source 600Ω, load 47 kΩ,

Connected 1:4 (fig 3), primary level +10dBu

10 Hz -50 kHz +/- 1.0 dB

Connected 1:8 (fig 4), primary level +10dBu

14 Hz -20 kHz +0 / - 2.0 dB

Connected 1:8 (fig 5), primary level +10dBu

14 Hz -35 kHz +0 / - 2.0 dB

Isolation between windings/ between windings and shield:

4 kV / 2 kV

Connection alternatives and suggested applications:

