

Line Input Transformer LL1540

LL1540 is a high impedance, high level line input transformer.

The transformer consists of two coils, each with one primary and one secondary part separated by an electrostatic shield. The core is a high permeability mu-metal core, and the transformer is housed in a mu-metal can.

Being a high impedance transformer, the LL1540 should normally be used in a series-series connection.

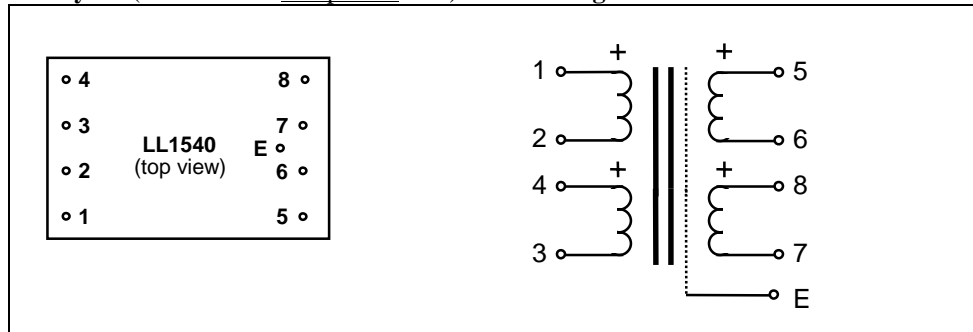
Turns ratio:

1 + 1 : 1 + 1

Dims (Length x Width x Height above PCB (mm)):

38 x 24 x 17

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



Spacing between pins:

5.08 mm (0.2")

Spacing between rows of pins:

27.94 mm (1.1")

Offset of earth pin from adjacent row:

2.54 mm (0.1")

Weight:

47 g

Rec. PCB hole diameter:

1.5 mm

Static resistance of each primary:

610Ω

Static resistance of each secondary:

800Ω

Distortion (source impedance 600Ω):

+ 20 dBU < 0.1% @ 50 Hz

+30 dBU < 1 % @ 50 Hz

Self resonance point :

> 60 kHz

Recommended load for best square-wave response:

22 kΩ in series with 1nF

Frequency response (source 600Ω, load 15 k Ω)

5 Hz -- 50 kHz +/- 0.2 dB

Loss across transformer (at 1 kHz with above termination):

0.5 dB

Isolation between windings / between windings and shield:

4 kV / 2 kV

Suggested connections:

