

Microphone Split Transformer / Line Bridging Transformer LL1527A

LL1527A is a special split version of our classical microphone transformer LL1527, where the shields of the two coils are available on separate pins. This facilitates building of e.g. split boxes with galvanically isolated shields.

The LL1527 is built-up from two coils, each with one primary and one secondary winding separated by an electrostatic shield. Each shield is connected to a separate pin. The core is a high permeability mu-metal core and the transformer is housed in a mu-metal can.

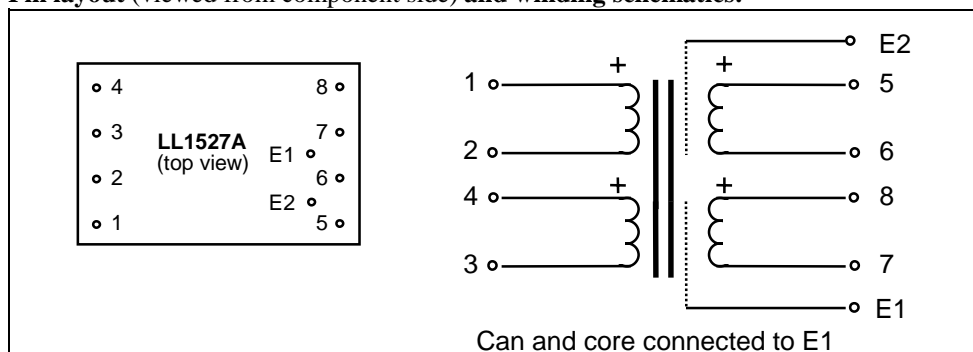
Turns ratio:

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 row from adjacent row:

2.54 mm (0.1")

Weight:

48 g

Rec. PCB hole diameter:

1.5 mm

Static resistance of each primary:

42Ω

Static resistance of each secondary:

45Ω

Distortion (primaries connected in series, source impedance 800Ω):

+ 6 dBu 0.1% @ 50 Hz

+16 dBu < 1 % @ 50 Hz

> 200 kHz

Self resonance point :

Optimum load for best square-wave response (sec. in series):

3 - 4 kΩ

Frequency response (source 800Ω , load 4 kΩ serial connection):

10 Hz -- 150 kHz +/- 0.2 dB

Loss across transformer (at midband, with above termination):

0.6 dB

Isolation between windings/ between windings and shield:

4 kV / 2 kV

Termination alternatives and suggested applications:

