

Line input transformer LL1545E (Based on LL1545A, but with all windings symmetrical)

LL1545E is an audio transformer primarily designed for line input applications. The transformer consists of two primary and two secondary windings. The primary and secondary sections are separated by Faraday shields. All windings are internally split between coils which increase the flexibility of the transformer, as windings can be connected in series, in parallel or individually without a risk of using the transformer asymmetrically.

The LL1545E is made with a mu-metal lamination core and is housed in a mu-metal can.

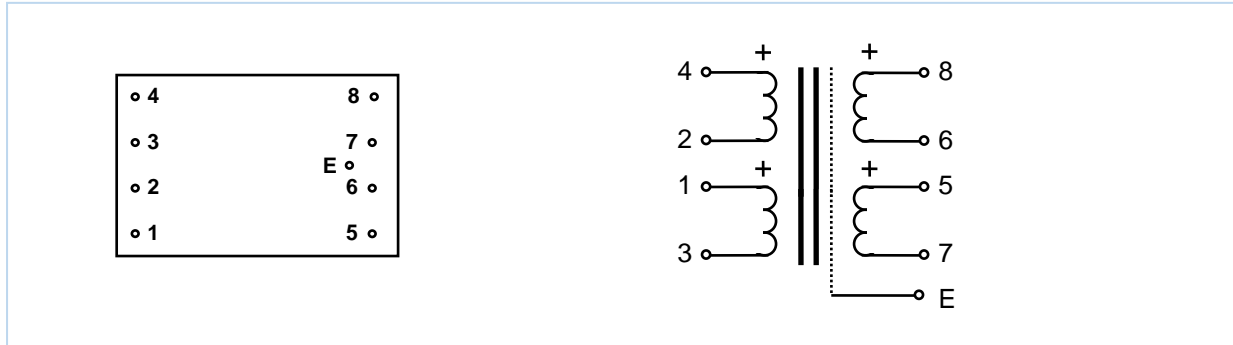
Turns ratio:

1 + 1 : 1 + 1

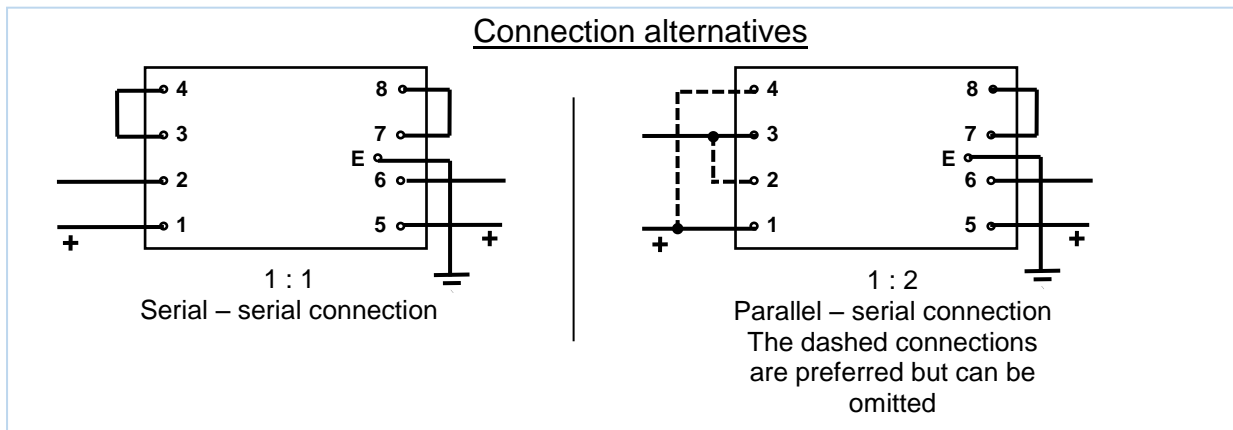
Dims (Length x Width x Height above PCB (mm)):

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 from adjacent row:	2.54 mm (0.1")
Weight:	51 g
Rec. PCB hole diameter:	1.5 mm
Static resistance of each winding:	295Ω
Distortion (primaries connected in series, source impedance 600Ω):	+ 22 dBU primary level, 40 Hz: 0.2 %
Frequency response (source 600Ω , load 100kΩ) (HF frequency response can be improved with RC termination)	5 Hz - 45 kHz +/- 1 dB @ 0dBu
Self-resonance point:	~ 140 kHz
Isolation between primary and secondary windings/ between windings and shield/ between windings in same group	3 kV / 1.5 kV / 1 kV



In situations where you have balanced AND unbalanced input, and the unbalanced input signal level drops 6dB, you can use the serial-serial connection for balanced input and the parallel-serial connection without the dotted connection for the unbalanced input. Note that unbalanced cold should be isolated from ground.

R2019-07-05 PL

