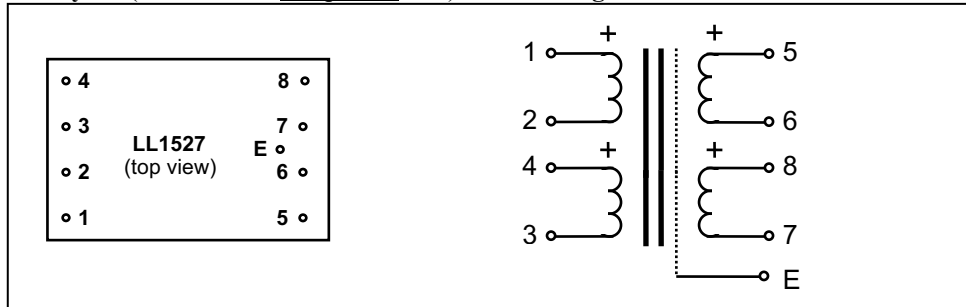


General Purpose Transformers LL1527 and LL1527XL

LL1527 is a truly general purpose transformer for microphone or line input, for output, for splitting 1 direct + 1 isolated and for galvanic isolation of units. LL1527 has been generally accepted by the audio industry as the general purpose audio transformer. The LL1527 is built-up from two coils, each with one primary and one secondary winding separated by an electrostatic shield. The core is a high permeability mu metal core. The transformer is housed in a mu-metal can. In the LL1527XL, the core is about 45% larger than in the LL1527, resulting in a higher signal level capability.

Turns ratio: 1 + 1 : 1 + 1

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")

	LL1527	LL1527XL
Dimensions (L x W x H above PCB, in mm)	38 x 24 x 17	38 x 24 x 20.5
Weight:	48 g	65 g
Rec. PCB hole diameter:	1.5 mm	1.5 mm
Static resistance of each primary:	43Ω	54Ω
Static resistance of each secondary:	56Ω	67Ω
Distortion (primaries connected in series, source impedance 800Ω):	+ 6 dBu 0.1% @ 50 Hz	+ 9 dBu 0.1% @ 50 Hz
Self resonance point :	+16 dBu < 1 % @ 50 Hz > 200 kHz	+19 dBu < 1 % @ 50 Hz > 200 kHz
Optimum load for best square-wave response (sec. in series):	3 - 4 kΩ	3 - 4 kΩ
Frequency response (source 800Ω , load 4 kΩ serial connection):	10 Hz -- 150 kHz +/- 0.2 dB	10 Hz -- 150 kHz +/- 0.2 dB
Loss across transformer (at midband, with above termination):	0.4 dB	0.5 dB
Isolation between windings/ between windings and shield:	4 kV / 2 kV	4 kV / 2 kV

Connection alternatives and suggested applications:

R221213 PL

