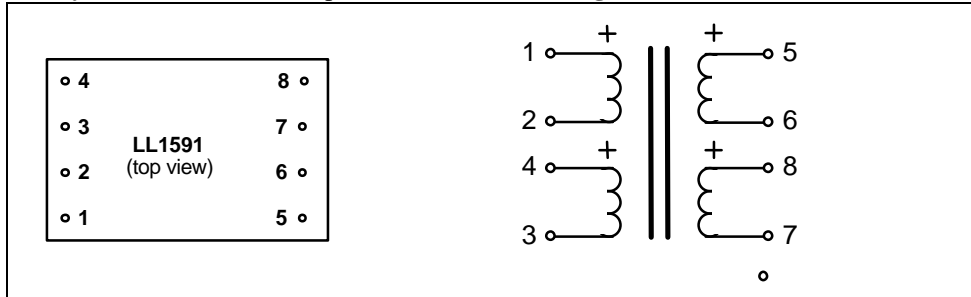


Low cost audio isolation transformer LL1591

LL1591 is a low cost audio isolation transformer, pin compatible with e.g. LL1527 and LL1581XL. The purpose with LL1591 is to provide a low cost solution, when noise rejection requirements are small. The LL1591 does not have internal faraday shields, nor mu metal housing.

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")

Dimensions: (L x W x H above PCB, in mm)	37 x 22 x 17
Weight:	39 g
Rec. PCB hole diameter:	1.5 mm
Static resistance of each primary:	43Ω
Static resistance of each secondary:	55Ω
Distortion (primaries connected in series, source impedance 800Ω):	+ 6 dBu 0.1% @ 50 Hz
Self resonance point :	+16 dBu < 1 % @ 50 Hz
Optimum load for best square-wave response (sec. in series):	> 120 kHz
Frequency response (source 600Ω , load 10 kΩ serial connection):	3 - 4 kΩ
Loss across transformer (at midband, with above termination):	10 Hz -- 80 kHz +/- 1 dB
Isolation between windings/ between windings and core:	0.4 dB
	3 kV / 1.5 kV

Connection alternatives and suggested applications:

