

International +46 - 176 13930 +46 - 176 13935

Phone

Fax

Domestic 0176-13930 0176-13935

Microphone Input Transformers LL1538 and LL1538XL

The LL1538 and the LL1538XL are high performance microphone input transformers, each with a high permeability mu-metal core and two three-section coils.

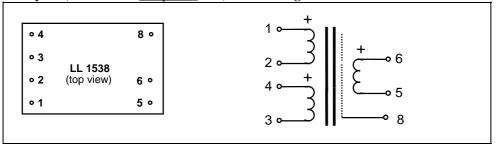
In the LL1538XL the core is about 45% larger than in the LL1538, resulting in a larger level capability. In both types, primary and secondary windings are separated by electrostatic shields. The three-section winding structure of the transformers results in a very low leakage inductance and thus an excellent frequency response.

The transformers are encapsulated in mu-metal cases for magnetic shielding.

1 + 1 : 5Turns ratio:

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

shield



	LL1538	LL1538XL
Dimensions (Max. Length x Width x Height above PCB (mm))	38 x 24 x 17	38 x 24 x 20.5
Spacing between pins	5.08 mm (0.2")	5.08 mm (0.2")
Spacing between rows of pins	27.94 mm (1.1")	27.94 mm (1.1")
Weight	46 g	65 g
Rec. PCB hole diameter	1.5 mm	1.5 mm
Static resistance of each primary	44Ω	61Ω
Static resistance of each secondary	880Ω	975 Ω
Distortion (primaries connected in parallel, source impedance 200Ω)	0.2 % @ 0 dBU (0.775V rms) primary level, 50 Hz	0.2 % @ + 3 dBU (1.1V rms) primary level, 50 Hz
	1 % @ + 10 dBU (2.5 V rms) primary level, 50 Hz	1 % @ + 13 dBU (3.5V rms) primary level, 50 Hz
Self resonance point	> 120 kHz	> 120 kHz
Optimum termination for best square-wave response (Connection 1:5, source imp. 200Ω)	No termination necessary	No termination necessary
Frequency response (source 200 Ω , no termination)	10 Hz - 100 kHz +/- 0.3 dB	10 Hz - 80 kHz +/- 0.3 dB
Isolation between windings/ between windings and	4 kV / 2 kV	4 kV / 2 kV

