LUNDAHL
– TRANSFORMERS –

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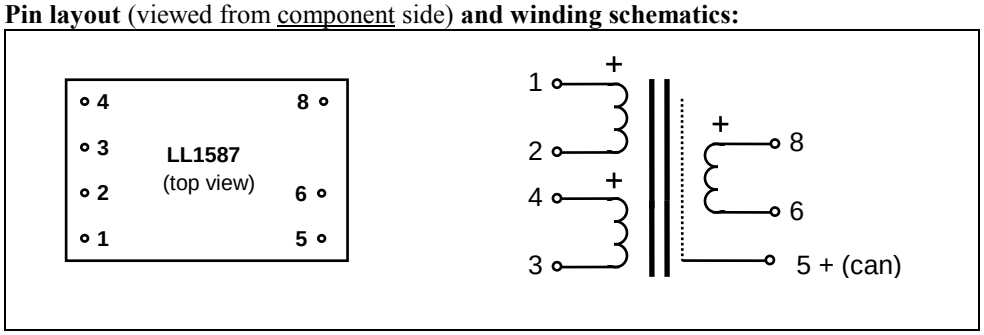
Microphone Transformer
LL1587

The LL1587 is small size microphone input transformer, with a high permeability mu-metal core and two two-section coils with internal Faraday shields.
The transformer is housed in a mu-metal can.

Turns ratio: 1 + 1 : 4

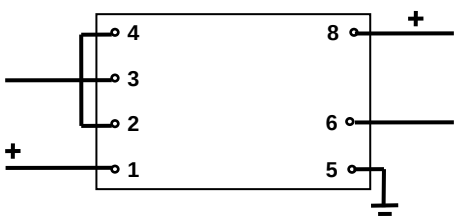
Pin layout (viewed from component side) **and winding schematics:**



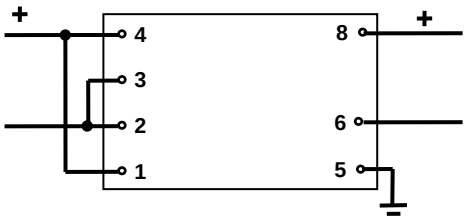
Dimensions Max. Length x Width x Height above PCB (mm)	Spacing between pins	Spacing between rows of pins	Recommended PCB hole diameter	Weight
28 x 17.5 x 12	3.81 mm(0.15")	20.32 mm (0.8")	1.5 mm	18 g

	LL1587
Turns ratio	1 + 1 : 4
Static resistance of each primary	56 Ω
Static resistance of secondary	600 Ω
Primary level at 0.2 % THD, 50 Hz signal Primaries connected in parallel, source impedance 150Ω	**-9 dBU** (typically) **(sec. level +2 dBU)**
Primary level at 1 % THD, 50 Hz signal Primaries connected in parallel, source impedance 150Ω	**0 dBU** **(sec. level +11 dBU)**
Frequency response +/- 1.0 dB Primary signal level -5 dBU, source 200 Ω Primaries in parallel, secondary termination 10k	**15Hz – 150kHz** **+/- 1 dB**
Optimum termination for best square-wave response (Connection 1:4, source imp. 200Ω , following stage input impedance < 10 kΩ)	**no additional termination required**
Optimum termination for best square-wave response (Connection 1:4, source imp. 200Ω , following stage input impedance >> 10 kΩ)	**10 kΩ in series with 200 pF**
Isolation between windings / between windings and shield	3 kV / 1.5 kV

Connection alternatives



1 : 2



1 : 4