

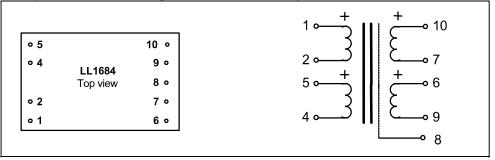
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## High Level General Purpose Transformer LL1684

LL1684 is a high-level, general-purpose, amorphous core transformer which can be used for microphone or line input, for line output and for galvanic isolation. The windings are arranged to give perfect symmetry if the transformer is used in phase splitting input applications. The two coils structure also greatly improves immunity to external magnetic fields from e.g. power supplies and motors. Primary and secondary windings are separated by electrostatic shields.. The transformer is housed in a mu-metal can.

**Turns ratio:** 1 + 1 : 1 + 1

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



Dimensions(L x W x H above PCB, in mm)42 x 28 x 22Spacing between pins5.08 mm (0.2")Spacing between rows of pins30.5 mm (1.2")Rec. PCB hole diameter:1.5 mmWeight:81 g

Static resistance of each primary:  $41\Omega$ Static resistance of each secondary:  $41\Omega$ 

**Distortion** (primaries connected in series, + 23 dBU 0.1% @ 50 Hz

**Distortion** (primaries connected in parallel, + 16 dBU 0.1% @ 50 Hz

source impedance 150 $\Omega$ ): + 19 dBU < 1 % @ 50 Hz

**Self resonance point:** > 250 kHz

**Frequency response** (source 150 $\Omega$ , load 10 k $\Omega$ , 10 Hz -- 100 kHz +/- 1.0 dB

serial connection):

**Phase response** (deviation from linear phase)  $20 \text{ Hz} - 20 \text{kHz}, +/-0.5^{\circ}$ 

Suggested load for best square wave response 10k // 1k + 3nF Isolation between windings/ between windings and shield: 3 kV / 1.5 kV

## Connection alternatives and suggested applications:

