Microphone Input Transformer

**LL1571**

LL1571 is a microphone input transformer built up from two coils and a high permeability mu metal core. Each coil is wound in three sections with electrostatic shields connected to separate pins. This results in a transformer with a very broad band, also ideal for splitting purposes. The two-coil structure in combination with the mu-metal can result in a high immunity to external magnetic fields.

**Turns ratio:** 1 + 1 : 1.75 + 1.75

**Dims (Length x Width x Height above PCB (mm)):** 38 x 24 x 17

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

```
   3  2  1
   8  7  6
   +  +  +
   E1  E1  E2
   Can and core connected to EP
```

**Spacing between pins:** 5.08 mm (0.2”)

**Spacing between rows of pins:** 27.94 mm (1.1”)

**Offset of earth pin rows from adjacent rows:** 2.54 mm (0.1”)

**Weight:** 48 g

**Rec. PCB hole diameter:** 1.5 mm

**Static resistance of each primary:** 50 Ω

**Static resistance of each secondary:** 175 Ω

**Distortion (primaries in series, source impedance 800 Ω):**

- + 6 dBu 0.1% @ 50 Hz
- +16 dBu < 1 % @ 50 Hz

**Self resonance point:** > 200 kHz

**Optimum load for best square-wave response**

(Source imp. 800 Ω, primaries and secondaries in series): 4 kΩ in series with 0.3 nF

**Frequency response** (source and load as above): 10 Hz -- 100 kHz +/- 0.5 dB

**Isolation between windings / between windings and shield:** 4 kV / 2 kV

**Connections:**

**1 : 1.75**

Serial - serial connection

**1 : 3.5**

Parallel-serial connection