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Recommended

Transformers for splitting LL1570 and LL1570XL

The LL1570 is designed for splitting signals in application where large ground differences may appear, but is also very useful as a general purpose audio transformer. By careful design, the capacative coupling between the different part of the transformer is kept to a minimum. The three-section winding structure which is necessary for decoupling also results in a very high bandwidth. The transformer is built up from two coils, each with primary and secondary windings separated by electrostatic shields, and a high permeability mu-metal core. The two coil structure in combination with the mu-metal can results in high immunity to external magnetic fields.

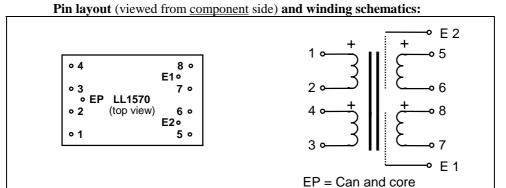
In the LL1570XL, the core is about 45% larger than in the LL1570, resulting in a larger level capability.

Turns ratio:

Spacing between

1 + 1 : 1 + 1

Offset of earth pin from



Spacing between

pins	rows of pins	adjacent row:	PCB hole diameter:
5.08 mm (0.2")	27.94 mm (1.1")	2.54 mm (0.1")	1.5 mm
		LL1570	LL1570XL
Dimensions (Max. L x W x H above PCB(mm))		38 x 24 x 17	38 x 24 x 20.5
Weight:		48 g	65 g
Static resistance of each primary:		50 Ω	62 Ω
Static resistance of each secondary:		50Ω	$62~\Omega$
Distortion (primary level, primaries connected		0.1% @ + 6 dBU, 50 Hz	0.1% @ + 9 dBU, 50 Hz
in series, source impedance 800Ω)		1 % < @ +16 dBU, 50 Hz	1 % < @ +19 dBU, 50 Hz
Self resonance point :		> 250 kHz	> 250 kHz
Optimum load for best square-wave response		$2.8 \text{ k}\Omega$ in series with 0.7 nF	$2.8 \text{ k}\Omega$ in series with 0.7 nF
(secondaries. in series):			
Frequency response (source 600Ω , load as		10 Hz 200 kHz +/- 0.5 dB	10 Hz 200 kHz +/- 0.5 dB
above, serial-serial connections):			
Distortion (primary level, primaries connected in series, source impedance 800Ω) Self resonance point: Optimum load for best square-wave response (secondaries. in series): Frequency response (source 600Ω , load as		0.1% @ + 6 dBU, 50 Hz 1 % < @ +16 dBU, 50 Hz > 250 kHz 2.8 kΩ in series with 0.7 nF	0.1% @ + 9 dBU, 50 Hz 1 % < @ +19 dBU, 50 Hz > 250 kHz 2.8 kΩ in series with 0.7 nF

