

TRANSFORMER TYPE AND APPLICATION OVERVIEW

R080506

Transformers mostly used in pro audio applications.

Line input transformers

Type	Turns ratio	Level (@50 Hz)	Usage / Comment
LL1531	1+1 : 1+1	+20 dBU	Line input. Small size
LL1540	1+1 : 1+1	+30 dBU	High level line input
LL1544A	1+1+1+1 : 2+2	+20 dBU	Line input. Amorphous core
LL1545A	1+1+1+1 : 2+2	+24 dBU	Line input
LL1592	1+1 : 1+1	+30 dBU	High quality line input.
LL1922	1+1 : 4+4	+26 dBU	Line step-up input. Similar to UTC LS-10
LL6404	1 : 1	N/A (High!)	Zero Field line input
LL7101	1+1 : 1.37	N/A (High!)	Zero Field line input
LL7901	1+1+1+1 : 1+1+1+1	+34 dBU	Very high level line input

Line output transformers

Type	Turns ratio	Level (@50 Hz)	Usage / Comment
LL1517	1+1,ct : 1+1	+28 dBU	With Faraday shields. General purpose.
LL1524	1+1 : 1+1	+28 dBU	Balanced drive. Very low leakage inductance.
LL1539	2 : 1+1	+31 dBU	Balanced drive
LL1555	1+1+1+1 : 2+2	+27 dBU	Balanced drive
LL1560	2+2 : 1+1+1+1	+26 dBU each secondary	Balanced drive. 4 output active split.
LL1582	1+1 : 1+1	+30 dBU	With Faraday shields. General purpose. Size optimized for Euroboard
LL1585	1+1 : 1+1	+31 dBU	With Faraday shields. General purpose.
LL2811	1+1 : 1+1	+30 dBU	Balanced drive. Low leakage inductance. Size optimized for Euroboard
LL5402	2 : 1+1	+22 dBU	Unbalanced drive
LL7401	1+1 : 1+1	+24 dBU	Balanced drive. Low profile. Very low leakage inductance.

General purpose transformers

Type	Turns ratio	Level (@50 Hz)	Usage
LL1527	1+1 : 1+1	+16 dBU	Split 1 : 1 direct + 1 isolated. Ground isolation
LL1527XL	1+1 : 1+1	+19 dBU	Split 1 : 1 direct + 1 isolated. Ground isolation
LL1532	1+1 : 2	+10 dBU	Mic input. Ground isolation
LL1570	1+1 : 1+1	+16 dBU	Split 1 : 1 direct + 1 isolated. Ground isolation
LL1570XL	1+1 : 1+1	+19 dBU	Split 1 : 1 direct + 1 isolated. Ground isolation
LL1581XL	1 : 1+1	+13 dBU	Splitting 1 : 1 direct + 2 isolated
LL1583	1 : 1+1	+8 dBU	Splitting 1 : 1 direct + 2 isolated. Small size
LL1588	1+1 : 1+1	+22 dBU	High level line isolation transformer
LL1591	1+1 : 1+1	+16 dBU	Low price ground isolation transformer
LL7902	1+1+1+1 : 1+1+1+1	+28 dBU	For high level applications, input and output.
LL7904	1 : 1+1	+23 dBU	High level splitting 1 : 1 direct + 2 isolated

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Microphone transformers

Type	Turns ratio	Level (@50 Hz)	Usage / Comment
LL1528	1+1 : 2.5+2.5	+10 dBU	200Ω : 5k microphone input
LL1530	1+1 : 3.5+3.5	+10 dBU	Direct Input 10k : 200Ω
LL1538*	1+1 : 5	+10 dBU	200Ω : 5k microphone input
LL1538XL*	1+1 : 5	+13 dBU	High level 200Ω : 5k microphone input.
LL1550	1+1+1+1 : 4+4	+6 dBU	Special application input. Amorphous core
LL1571	1+1 : 1.75+1.75	+10 dBU	200Ω : 2k5 microphone input
LL1576*	1+1 : 7	+10 dBU	200Ω : 10k microphone input
LL1577*	1+1 : 14	+4 dBU	50Ω : 10k microphone input
LL1578*	1+1 : 10	+4 dBU	50Ω : 5k microphone input
LL1578XL*	1+1 : 10	+7 dBU	High level 50Ω : 5k microphone input.
LL1587	1+1 : 4	+0 dBU	Small size 200Ω : 3k2 microphone input
LL1636	1+1+1+1 : 10+10	-2 dBU	Special application input. Amorphous core
LL1927A	1+1 : 55 + 55		Very high turns ratio. For ribbon mics.
LL2912	1 : 37	-30 dBU (1:37)	For ribbon microphones. Amorphous core.
LL2913	1+1+1+1 : 37	-30 dBU (1:37)	For ribbon microphones. Amorphous core. New pinout.
LL2914	1+1+1+1 : 37	-30 dBU (1:37)	For ribbon microphones. Mu metal core.
LL2915	1:37	-30 dBU (1:37)	For ribbon microphones. Mu metal core.
LL7903	1+1+1+1 : 2+2+2+2	+28 dBU	Very high level mic/line input.

Transformers marked with * have compatible pinout.

Problem solvers. (Transformer XLR isolation units)

Type	Turns ratio	Level (@ 50 Hz)	Usage
LL6810-phmphpm	1 : 1	+15 dBU	Isolation transformer unit Phono - Phono w. 6 ft cable
LL156X-3FX3MX	1 : 1	+24 dBU	XLR female to XLR male line input
LL156X-3FXPHM	1 : 1	+24 dBU	XLR female to Phono male line input
LL156X-3FXNP2C	1 : 1	+24 dBU	XLR female to 2 pole 1/4" plug line input
LL156X-PHF3MX	1 : 1	+24 dBU	Phono female to XLR male line input
LL1584-3FX3MX	1 : 1	+16 dBU	XLR female to XLR male gen. purpose
LL1584-3FXPHM	1 : 1	+16 dBU	XLR female to Phono male gen. purpose
LL1584-3FXNP2C	1 : 1	+16 dBU	XLR female to 2 pole 1/4" plug gen. purpose
LL1584-PHF3MX	1 : 1	+16 dBU	Phono female to XLR male gen. purpose

Transformers for tube amplifiers and other audiophile applications

Tube amplifier output transformers

Type	Usage	Comment
LL1620	Output transformer.	3.3k, 6.0k or 11.5k primary impedance
LL1620CFB	Output transformer	LL1620 with split windings for <u>cathode feedback</u>
LL1623	Output transformer.	1.6k, 3.0k or 5.6k primary impedance
LL1627	Output transformer.	650 ohms, 1.2k or 2.3k primary impedance
LL1663	Output transformer.	5k primary, 8 ohm output
LL1664	Output transformer.	3k primary, 8 ohm output
LL1679	Output transformer.	2.6k, 4.5k, 9.7k primary impedance. UL tap.
LL1682	Output transformer.	5.5k primary, 5 ohm output
LL1688	Output Transformer	For 845 tubes.
LL1691	Output Transformer	For 845 tubes. Improved HF performance.
LL1693	Output transformer	High power version of LL1627

LL1620, LL1623, LL1627, LL1663, LL1664, LL1679 and LL1682 are also available with **amorphous C-core**.

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Interstage transformers, anode chokes, grid chokes and tube line output transformers

Type	Usage	Comment
LL1621	Non-inverting interstage transformer	
LL1630	Line output	7.2 : 1 line output
LL1635	Interstage transformer	1+1 : 1+1
LL1660	Interstage / line output transformer	Various connection alternatives
LL1660S	Interstage with phase splitting	For SE : PP and for line output.
LL1667	Tube anode choke	DC current 15mA
LL1668	Tube anode choke	DC current 25mA
LL1670	Grid choke	0.8mA
LL1671	Interstage / line output transformer	High current version of LL1660
LL1677	High current interstage transformer	For 300B driver tube.
LL1680	Line output transformer	Replacement for UTC LS-27 transformer
LL1689	Line Output Transformer	9+9 : 1+1+1+1 Line output version of LL1660
LL1692A	Interstage / Line output transformer	LL1660 and LL1671 compromise

LL1660, LL1660S, LL1667, LL1668, LL1671, LL1677, LL1689 and LL1692A are also available with **amorphous C-core**.

Mains transformers, mains isolation transformers and power supply chokes

Type	Usage	Comment
LL1638	Mains choke	1 – 8 Henry
LL1648	Mains transformer , 350V	2 x 5.9V + 2 x 6.6V
LL1649	Mains transformer, 230V	4 x 6.6V
LL1650	Mains transformer, 350V	4 x 6.6V
LL1651	Mains transformer, 500V	4 x 6.6V
LL1655	Mains isolation transformer	115V + 115V : 115V + 115V, 300VA
LL1658	Mains isolation transformer	115V + 115V : 115V + 115V, 100VA
LL1662	Mains isolation transformer with stepup/stepdown	115V + 115V : 115V + 115V +10V + 10V, 300VA
LL1669A	Mains transformer, 340V	110V and 4 x 6.3V
LL1673	Mains choke	8 – 20 Henry
LL1683	Preamp mains transformers, 250V	48V , 2 x 6.6V and 2 x 5.2V
LL1685	Preamp mains choke	10H – 17H, 160mA – 100mA

Other audiophile type transformers

Type	Usage	Comment
LL1674	Amplifier input transformer	High level input. Parafeed line output
LL1676	Amplifier input transformer	High level input, 1+1 : 2+2
LL1678	Moving Coil input. Amorphous core	1+1+1+1 : 16 + 16
LL1681	Moving coil input. Mu-metal core	1+1 : 13 + 13
LL1684	Audio isolation transformer	For high-level isolation. With amorphous core
LL1690	Amorphous core line input transformer	1+1 : 1+1. Excellent for phase splitting.
LL1930	Tube preamp line output	Mu metal core. For DC decoupled output
LL1931	Moving Coil input. Amorphous core	Oversized transformer for outstanding audiophile performance.
LL7905	Amplifier input transformer	High level input, 1+1+1+1 : 5.6 + 5.6
LL9206	Moving Coil input. Amorphous core	1+1+1+1 : 10 + 10

Miscellaneous transformers

Type	Turns ratio	Usage / Comment
LL1572	110 : 110 ohms	Digital audio isolation. Increased bandwidth. Replaces LL1566
LL1573	110 : 110 + 110 ohms	Digital audio split, 2 isolated out.
LL1574	110 : 75 ohms	Digital Audio AES/EBU : SPDIF interface
LL1575	1 : 1	Composite video isolation
LL1589	110 : 110 + 110 + 110 ohms	Digital audio split, 3 isolated out.
LL6702	N/A	Telephone hybrid transformer