

**TRANSFORMER TYPE AND APPLICATION OVERVIEW**

R120217

**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.
LL2734	1+1 : 1.4 + 1.4	+30 dBU	Solid State Single End
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
LL1590	1 : 1+1+1	+15 dBU	Splitting 1 : 1 direct + 3 isolated
LL1591	1+1 : 1+1	+16 dBU	Low price ground isolation transformer
LL1944	1+1 : 1+1+1+1	+28 dBU	Mic split for speaker box etc. <b>NEW!</b>
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	DI (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.
LL1935	1+1 : 5 + 5	+7 dBU	DI (Direct Input) 20k : 200Ω
LL1936	(2+1) + (2+1) : 4+4	+14 dBU	75Ω, 150Ω, 300Ω and 600Ω : 1200Ω
LL1940	9:1+1	45V RMS	Tube mic output with "character" <b>NEW!</b>
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.
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.
LL2916	1+1 : 55 + 55		Mu metal core version of LL1927A <b>NEW!</b>
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 / Comment
LL6810-phmphi	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

#### Mains transformers, mains isolation transformers and power supply chokes

Type	Usage	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
LL1694	Filament current choke	3A, 40mH for filament current filtering
LL2733	Filament current choke	3.4A, 100mH for filament current filtering
LL2738	Filament current mains transformer	8 x 6.6V (3A) and 1 x 110V (0.1A)

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### Tube amplifier output transformers

Type	Usage	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
LL2735B	Output transformer	16k : 8 ohm SE

LL1620, LL1623, LL1627, LL1663, LL1664, LL1679, LL1682, LL2735B are also available with **amorphous C-core**.

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

Type	Usage	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 15 – 40 mA
LL1668	Tube anode choke	DC current 25 – 80 mA
LL1670	Grid choke	0.8mA
LL1671	Interstage / line output transformer	High current version of LL1660
LL1677	High current interstage transformer	For 300B <u>driver</u> 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
LL2743	Tube anode choke	DC current 40 – 110mA <b>NEW!</b>

LL1660, LL1660S, LL1667, LL1668, LL1671, LL1677, LL1689, LL1692A, LL2743 also available with **amorphous C-core**.

### Other audiophile type transformers

Type	Usage	Usage / Comment
LL1674	Amplifier input transformer	High level input. Parafeed line output
LL1676	Amplifier input transformer	High level input, 1+1 : 2+2
LL1678	MC input. Amorphous core	1+1+1+1 : 16 + 16
LL1681	MC input. Mu-metal core	1+1 : 13 + 13
LL1684	Audio isolation transformer	For high-level isolation. With amorphous core
LL1690	Line input . Amorphous core	1+1 : 1+1. Excellent for phase splitting.
LL1930	Tube preamp line output	Mu metal core. For DC decoupled output
LL1931	MC input. Amorphous core	1:8, 1:16. Outstanding audiophile performance.
LL1933	MC input. Mu metal core	1:8, 1:16 Outstanding audiophile performance.
LL1941	MC input. Amorphous core	1:16, 1:32. Outstanding audiophile performance.
LL1943	MC input. Mu metal core	1:16, 1:32. Outstanding audiophile performance.
LL7905	Amplifier input transformer	High level input, 1+1+1+1 : 5.6 + 5.6
LL9206	MC input. Amorphous core	1+1+1+1 : 10 + 10
LL9226	MC input. Amorphous core	1+1+1+1 : 10 + 10 Improved sound

LL1931, LL1933, LL1941, LL1943 also available with **silver wire windings**. **NEW!**

### Miscellaneous transformers

Type	Turns ratio	Usage / Comment
LL1572	110 : 110 ohms	Digital audio isolation. 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.
LL2410	2+2+2+2 : 1+1+1+1+1+1+1+1	General purpose 100V loudspeaker transformer
LL6702	N/A	Telephone hybrid transformer