Allnic L-8500 OTL / OCL

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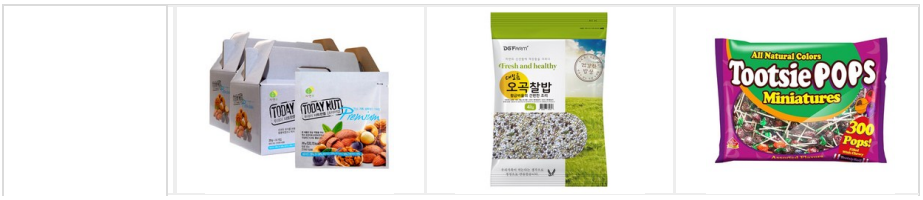

> The way to the tube preamplifier is OTL / OCL after all.

The difference between a tube amplifier and a solid amplifier is that there is an output transformer behind it. Of course, the Macintosh uses an output transformer called an autoformer for solid-state amplifiers, but this is an exceptional exception. Since the tube has a high output impedance, an output transformer is required to bring it down for the rear end of the power amplifier or speaker. The output transformer also plays a role in preventing DC electricity from flowing backwards. This is because the transformer is basically separated from the primary and secondary windings.

The manufacturer that made a difference in this output transformer is Allnic of Korea. Introduced a perm alloy, a nickel alloy core, and has introduced a number of luxury products that show off broadband and energy. However, the latest Olym preamps do not have this output transformer. The L-10000, which used two 300Bs per channel as its output tube, halted its start, and the L-9000, which had one 6080 per channel, also omitted the output transformer. That's why these models have an Output Transformer-Less (OTL).

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However, they are followed by the word OCL (Output Capacitor-Less). Literally, no capacitors are used at the ends of the signal path. Capacitors, like output transformers, play a heavy role in blocking the DC, but they have deadly limits such as distortion, coloring, and energy loss. This is why there are so many amplifiers that prevent the back-flow of DC into DC servo instead of capacitor. Anyway, the point is that the two transformers, the output transformer and the capacitor, are similar.

The viewer, the L-8500, is an OTL / OCL tube preamplifier. The 61-stage static impedance attenuator in the top two models has been reduced to 41, the tube amp configuration has changed, and the price remains at half the level of the L-9000, but it is basically a preamplifier that inherits the DNA of the OTL / OCL family. . I asked Olnick Park, Kang, directly that 'L-8500 is an Affordable product that keeps the OTL / OCL design principles, but at a lower price for enthusiasts,' and Olnik's preamplifier will move to OTL / OCL. will be. The dream of every tube amplifier maker is OTL / OCL.

The L-8500 is equipped with 6AN8 (1 per channel) for the composite tube, 12AU7 (1 per channel) for the dual stage, and 12B4 (2 per channel) for the output stage. There's a 41-speed attenuator knob in the middle, an output meter on each side, and an input selector switch in the middle. Strong front and side handles, polycarbonate chimneys on each tube, and exposed attenuators are typical olympic designs. Voltage gain is + 18dB, input impedance is 10㏀, frequency range is 10Hz-90kHz, signal-to-noise ratio is -100dB, THD (1kHz, 1Vrms) is 0.03%, and maximum output voltage is 15Vrms.

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Design Attention is drawn to the fact that the 12B4 used as output tube is a single-ended push-pull (SEPP) configuration. This is because in order to configure OTL / OCL, DC power must not flow to the output tube when both positive (+) and negative (-) flows. This is the same principle that solid-state output stages without native output transformers are composed of PNP (+) and NPN (-). Therefore, single or para single with only positive power cannot be used with OTL / OCL. This is why the L-10000 drives two 300Bs per channel, while the L-9000 drives the two internal tripoles of the dipole 6080 with single-ended push-pull.

The low internal resistance of 12B4 is also noticeable. OTL / OCL preamplifiers require a particularly low output tube internal resistance and low output impedance to drive the power amplifier without coloration or distortion. In fact, in 1954, the US's Julius Futterman introduced an OTL amplifier with 12B4 for the SEPP configuration. In addition, the 12B4 has excellent voltage amplification factor (mu. 6.5) and current amplification factor (gm.

After listening to some songs with Olnick's 300B push-pull monoblock power amplifier M-2500 and Wilson Venetian's Square 2 speakers, the L-8500 is quickly becoming a standard. It was an open stage with no crisp, crisp, clean notes or cramped corners. Shostakovich's Symphony No. 5, where Andris Nelsons led the Boston Symphony Orchestra, had no sound anywhere, and the foam did not collapse at low volume. . Yashinta's Moon River is a great feast. The L-8500 has sound proof why the end of the tube preamplifier should be OTL / OCL.

Frequency range 10 Hz-90 kHz
Input Impedance 10kΩ
S / N ratio -100dB
THD 0.03%
Voltage gain +18 dB
Max output 15V
Vacuum tube 6AN8 × 2, 12AU7 × 2, 12B4 × 4
Size (WHD) 43 × 16 × 38cm

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