

LUXMAN

INTEGRATED AMPLIFIERS

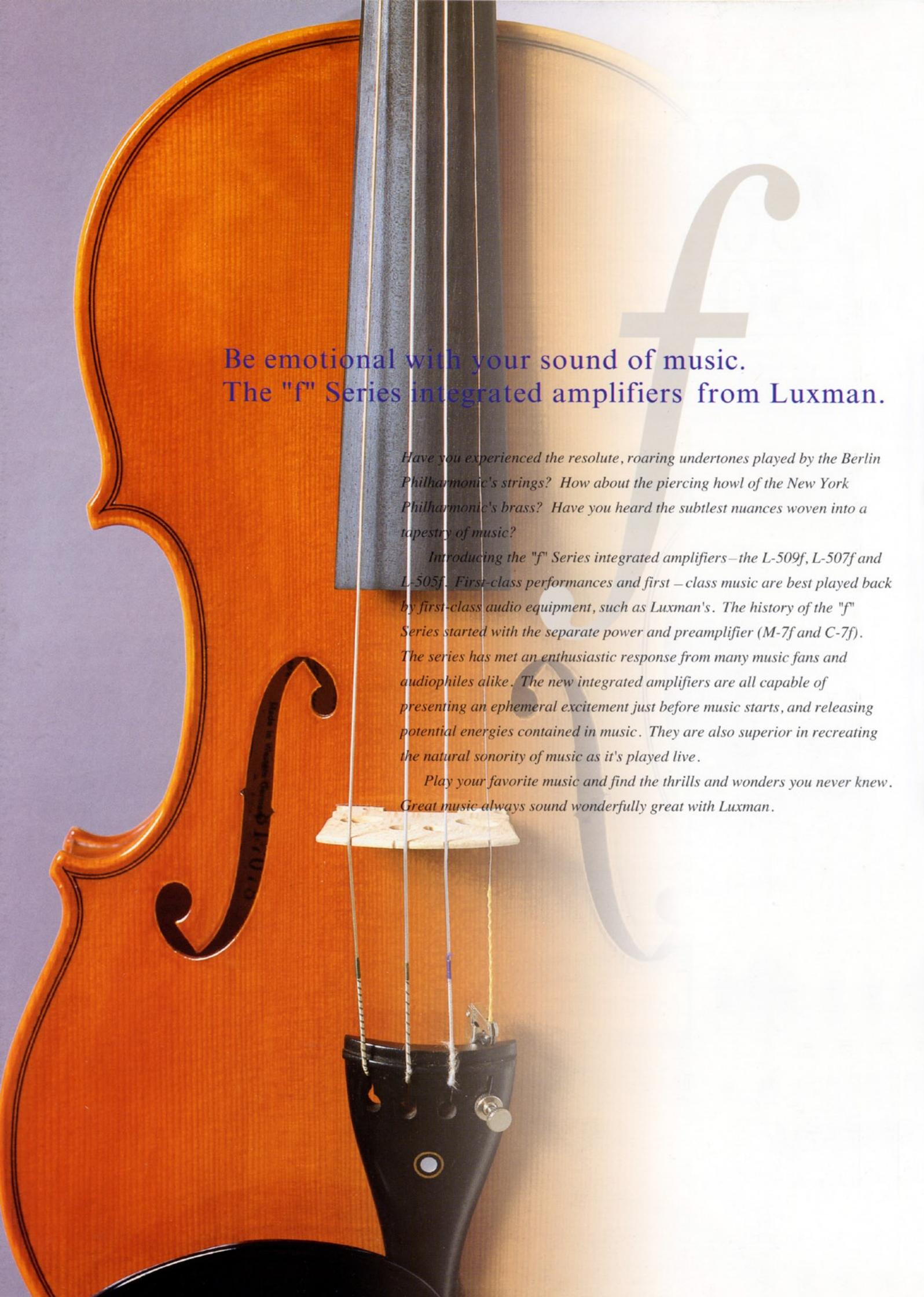
L-509f

L-507f

L-505f



LUXMAN CORPORATION



Be emotional with your sound of music.
The "f" Series integrated amplifiers from Luxman.

Have you experienced the resolute, roaring undertones played by the Berlin Philharmonic's strings? How about the piercing howl of the New York Philharmonic's brass? Have you heard the subtlest nuances woven into a tapestry of music?

Introducing the "f" Series integrated amplifiers—the L-509f, L-507f and L-505f. First-class performances and first-class music are best played back by first-class audio equipment, such as Luxman's. The history of the "f" Series started with the separate power and preamplifier (M-7f and C-7f). The series has met an enthusiastic response from many music fans and audiophiles alike. The new integrated amplifiers are all capable of presenting an ephemeral excitement just before music starts, and releasing potential energies contained in music. They are also superior in recreating the natural sonority of music as it's played live.

Play your favorite music and find the thrills and wonders you never knew. Great music always sound wonderfully great with Luxman.

INTERGRATED AMPLIFIERS
SERIES「f」CRAFTED BY LUXMAN



L-509f

150W+150W (8Ω)、225W + 225W(4Ω)



L-507f

125W + 125W (8Ω)



L-505f

90W+90W(8Ω)

Play music the way it was intended - with a collection of Lu

The "f" Series, featuring the legendary music-first design—the ODNF Circuit

Meet the Luxman integrated amplifiers. They are designed to work as a simple interface between music and audience—the ultimate form of audio amplification. In each of them you'll find the quintessence of Luxman craftsmanship and expertise. They are the result of thorough examination of amplifier engineering, from circuitry to panel layout, from parts to build.

With the introduction of SACD and DVD Audio, you can now experience super fidelity of sound made possible by high-bit/high-sampling technology. So, more than ever, an amplifier should be capable of releasing potential energy of the music without degrading its purity.

The new "f" Series amps are our highest-level answer to the need for such amplifiers. The design highlight of the series is the ODNF Circuit we used for the first time in the power amp block of an integrated amplifier. This is Luxman's exclusive circuit design that met an enthusiastic response from audiophile users when it was built into the M-7f and C-7f separate amplifiers. ODNF does not use phase compensation circuits or NFB loops in the path where musical signals go through. It's a ground-breaking technology that accurately isolates distortion components from music signals and completely cancel them out.

The "f" Series amps are capable of driving a wide range of speakers with power to spare, letting you enjoy the enormously wide dynamic range of DVD Audio and SACD sources to the full. The power supply features a fast transient response and a huge capacity to constantly generate abundant power, irrespective of current requirements demanded by musical dynamics. Luxman's decades of know-how is also extensively applied to the construction of a rigid, unresonating housing. These and more advanced technologies are used, along with select parts and devices, to make the "f" Series amps ready for the challenge of current and next-generation audio sources.

ODNF Circuit, a circuit design that gives new life to the music you play

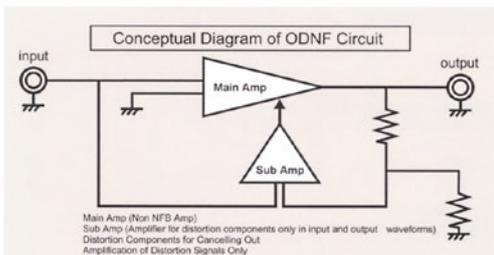
The rich sonority of a Steinway piano...the noble overtones of a Stradivarius violin... Only amps with a high initial slew rate can accurately recreate a delicate tone that the famous instruments create. What's more, for the most natural music reproduction, there should be smooth continuity in timbre as frequencies go up from lowest to highest.

The ODNF Circuit is a next-generation design born out of complete re-definition of the relationship between music and noise to ensure highly musical reproduction.

This circuit features such an ultra-wide range, ultra-high slew rate and ultra-low distortion that it does not use phase compensation for the amplifying circuits of music signals. Remember a conventional NFB (Negative Feedback) circuit requires phase compensation.

Moreover, conventional NFB technology suppresses distortion and music signals too, therefore it restrains the spontaneity of music, leading to a

limited frequency range and the reduction of the data density in reproduced music. With the ODNF Circuit, however, the distortion

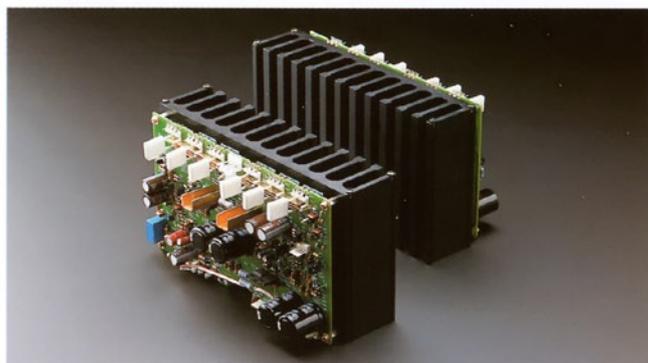


components are detected at the output, and feedback is applied to the final stage of the amplifier to cancel them out. The result: only distortion components are removed from the output signal.

As you saw, with ODNF, music signals are processed separately from the NFB, leading to an ultra-fast initial slew rate and an ultra-wide frequency range. A DC servo amp is widely used in an NFB circuit to control low frequencies, but it's one source of undesired coloration inherent with NFB. The "f" Series amps do not use it, therefore they do not suffer from degradation due to coloration. All in all, with the timbre consistent across the entire frequency range, music sounds most natural and smooth.

Quality power that releases dynamic energy from music

With Luxman, power as a qualitative indicator is as important as power as a quantitative indicator, because it's quality power that imparts the sense of élan to music. The new "f" Series amps all feature significantly upgraded high power to improve the capability to drive low-impedance loads. The L-509f, for instance, boasts a three-in-parallel instead of a two-in-parallel push-pull configuration, to deliver an awesome power output of 225W+225W (4 ohms). The L-507f and L-505f too come with considerably higher power than the early-generation models.



Power Amp. Block

A responsive, high-capacity power supply for dramatic improvement in dynamics

Music is a drama without a slack moment. From the first moment of an eloquent introduction to the absolute silence right after the driving coda, an amp's power reservoir must be always full to supply steady energy to the circuits, ready to respond to the need instantly in real-time. That's why the "f" Series amps come with a competent power supply, one normally found in amps in a class above—a 670VA high-capacity power transformer and four massive 10,000uF electrolytic capacitors with the L-509f, for instance. Power to drive amps is generated and supplied in abundance in step of changes in music dynamics.



Huge Power Unit

Luxman technologies designed to release emotional energy

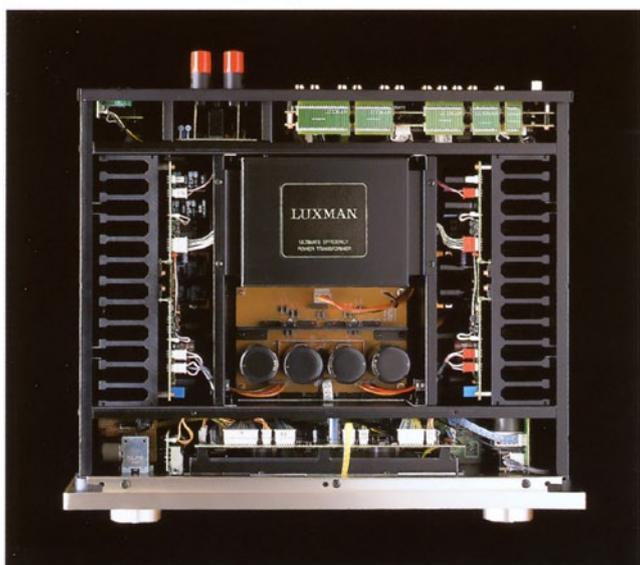
High-rigidity construction to minimize noise

The "f" Series amplifiers are designed to give you pure, musical excitement. This means various types of noise are suppressed to a minimum level, whether they are excited by spurious vibrations or interference between circuits. Structurally, each amplifier features a chassis base with superb vibration absorption response, and a thick chassis for mounting parts. Thus, the chassis and chassis base form a heavy and solid integrated construction that's highly resistant to vibrations and resonance.

Moreover, the power transformer, electrolytic capacitors and amp blocks are so laid out as to not interfere each other directly. To further cut interference, the block construction isolates each section from others using shielding panels. Finally, extensive internal filtering rejects interference due to magnetic flux, while protecting the circuit from external noise.

Possibilities of system upgrade

With the "f" Series amps, the preamp and power amp sections can be separated for independent use, letting you enjoy flexible system configuration. For instance, you can upgrade to a bi-amp or tri-amp system by adding one or more power amps while retaining the control function of the preamp section.



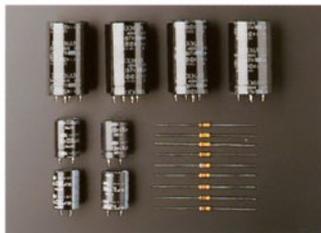
Top View

Music-first custom parts developed by Luxman

The reason why Luxman amps can accurately reproduce every subtle nuance in a music source is that they extensively use custom Luxman parts. Most are originally developed for high-end separate preamps and power amps, but they have found their way into the "f" Series amps. Carbon-film resistors are used for sonic superiority. Every facet of resistor manufacturing was reviewed to develop resistors that would meet our rigorous requirements?material (alumina), type of carbon, material and shape of terminals, pressing method, more. An exclusive potentiometer was also developed for maximum flow of information and rich musical expression.

More custom parts include high-capacity power transformers, high-capacity block capacitors, electrolytic capacitors, copper bus bars, high-purity

cables and more, all made to our specifications. All Luxman custom parts are reflections of Luxman's know-how and sensibility nourished over decades of superior engineering.



Custom Parts

Outsized power meters for "visualizing music"

The large precision power meters enhance the beauty of the "f" Series integrated amplifiers. They are logarithmically scaled for easy reading over a wide power level. An 8mm-thick acrylic cover, fluorescent lighting and illuminated Luxman logo help enhance the beauty of the panel design.

A full array of inputs and outputs, plus exclusive speaker terminal design

The rear panel comes with two balanced input terminals (one with the L-505f), as well as RCA pin inputs. The large speaker terminals are of our own elaborate design that allows connection of spade lugs.



Speaker Terminals

Classy looks and excellent build quality

The looks of audio components are an expression of functionality and musical sensibility. This aptly applies to the "f" Series amps too. The front panel presents a clean and logical face; the control layout is symmetrical with respect to left and right; and the precision hairline finish makes the amplifiers look like pieces of furniture. Superior design and furniture-like finish suggest the advanced technologies abundantly applied inside for the sake of music, pure music.

* Please set the main volume level at the -14dB position for maximum home theater effect.

With the "f" Series amps, you can best enjoy music in a multi-channel environment for home theater when you set the main volume at the -14dB position. Using this position, you can maintain the balance in level between channels as set by an AV processor or other device.



Set the volume level at the -14dB position, the optimum setting for multi-channel environments

INTEGRATED AMPLIFIERS 「f」SERIES SPECIFICATIONS



L-509f

●Continuous Power Output

(RMS) 150W+150W (8 Ω), 225W + 225W (4 Ω)

●Total Harmonic Distortion

Less than 0.007% (8 Ω, 1kHz, line straight on)
Less than 0.05% (8 Ω, 20~20kHz, line straight on)

●Input Sensitivity / Impedance

PHONO (MM) : 2.5mV/47k Ω
PHONO (MC) : 0.3mV/100 Ω
LINE : 180mV/42k Ω
RECORDER : 180mV/42k Ω
BAL. LINE : 180mV/79k Ω
BAL. CD/DVD · A : 180mV/79k Ω
MAIN-IN : 1V/51k Ω

●Output Voltage

RECORDER : 180mV
PRE-OUT : 1V

●S/N Ratio

PHONO (MM) : More than 83dB (IHF-A, Input 5mV, line straight on)
PHONO (MC) : More than 61dB (IHF-A, Input 0.5mV, line straight on)
LINE : More than 93dB (IHF-A, Input short, line straight on)

●Frequency Response

PHONO (MM) : 20Hz~20,000Hz (±0.5dB, line straight on)
PHONO (MC) : 20Hz~20,000Hz (±0.5dB, line straight on)
LINE : 20Hz~100,000Hz (Less than -3dB, line straight on)

●Tone Control (Max)

BASS ±10dB at 100Hz
TREBLE ±10dB at 10kHz

●Loudness Control

+7dB(±1dB) at 100Hz
+5dB(±1dB) at 10kHz

●Controls and Indicators

- Power Meters
- Balance
- Recording Selector
- Speaker Selector (A,B)
- Mode Selector
- Subsonic
- Tone Control
- Loudness
- Headphone Jack
- Line Straight Switch
- Phase Inverter
- Line Phase Sensor
- Remote Control

●Dimensions

467 (W) × 179 (H) × 440 (D) mm

●Weight 25.5kg

●Accessories

Remote Control Unit



L-507f

●Continuous Power Output

(RMS) 125W+125W (8 Ω)

●Total Harmonic Distortion

Less than 0.007% (8 Ω, 1kHz, line straight on)
Less than 0.05% (8 Ω, 20~20kHz, line straight on)

●Input Sensitivity / Impedance

PHONO(MM) : 2.5mV/47k Ω
PHONO(MC) : 0.3mV/100 Ω
LINE : 180mV/42k Ω
RECORDER : 180mV/42k Ω
BAL. LINE : 180mV/79k Ω
BAL. CD/DVD · A : 180mV/79k Ω
MAIN-IN : 1V/51k Ω

●Output Voltage

RECORDER : 180mV
PRE-OUT : 1V

●S/N Ratio

PHONO(MM) : More than 83dB(IHF-A, Input 5mV, line straight on)
PHONO(MC) : More than 61dB (IHF-A, Input 0.5mV, line straight on)
LINE : More than 93dB(IHF-A, Input short, line straight on)

●Frequency Response

PHONO (MM) : 20Hz~20,000Hz (±0.5dB, line straight on)
PHONO (MC) : 20Hz~20,000Hz (±0.5dB, line straight on)
LINE : 20Hz~100,000Hz (Less than -3dB, line straight on)

●Tone control (Max)

BASS ±10dB at 100Hz
TREBLE ±10dB at 10kHz

●Loudness Control

+7dB(±1dB) at 100Hz
+5dB(±1dB) at 10kHz

●Controls and Indicators

- Power Meters
- Balance
- Recording Selector
- Speaker Selector (A,B)
- Mode Selector
- Subsonic
- Tone Control
- Loudness
- Headphone Jack
- Line Straight Switch
- Phase Inverter
- Line Phase Sensor
- Remote Control

●Dimensions

467 (W) × 179 (H) × 440 (D) mm

●Weight 22.5kg

●Accessories

Remote Control Unit



L-505f

●Continuous Power Output

(RMS) 90W+90W (8 Ω)

●Total Harmonic Distortion

Less than 0.007% (8 Ω, 1kHz, line straight on)
Less than 0.05% (8 Ω, 20~20kHz, line straight on)

●Input Sensitivity / Impedance

PHONO(MM) : 2.5mV/47k Ω
PHONO(MC) : 0.3mV/100 Ω
LINE : 180mV/42k Ω
RECORDER : 180mV/42k Ω
BAL. LINE : 180mV/79k Ω
MAIN-IN : 1V/51k Ω

●Output Voltage

RECORDER : 180mV
PRE-OUT : 1V

●S/N Ratio

PHONO (MM) : More than 83dB (IHF-A, Input 5mV, line straight on)
PHONO (MC) : More than 61dB (IHF-A, Input 0.5mV, line straight on)
LINE : More than 93dB (IHF-A, Input short, line straight on)

●Frequency Response

PHONO (MM) : 20Hz~20,000Hz (±0.5dB, line straight on)
PHONO (MC) : 20Hz~20,000Hz (±0.5dB, line straight on)
LINE : 20Hz~100,000Hz (Less than -3dB, line straight on)

●Tone control (Max)

BASS ±10dB at 100Hz
TREBLE ±10dB at 10kHz

●Loudness Control

+7dB (±1dB) at 100Hz
+5dB (±1dB) at 10kHz

●Controls and Indicators

- Power Meters
- Balance
- Recording Selector
- Speaker Selector (A,B)
- Mode Selector
- Subsonic
- Tone Control
- Loudness
- Headphone Jack
- Line Straight Switch
- Phase Inverter
- Line Phase Sensor
- Remote Control

●Dimensions

467 (W) × 179 (H) × 440 (D) mm

●Weight 21.0kg

●Accessories

Remote Control Unit