

K-300p

PHONO PREAMPLIFIER



**High gain low noise preamplifier for moving coil
or moving magnet phono cartridges.**

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DESIGN

The K-300p is a high-performance phono preamplifier for moving coil and moving magnet phono cartridges. With separate moving coil and moving magnet inputs, the K-300p provides an optimal interface for each cartridge type.

With adjustable resistive loading from 47k down to 10 ohms and up to 62dB of gain (at 1kHz), the moving coil input can accommodate a wide variety of cartridges, even low output models. The input is fed to a hybrid discrete-IC circuit using paralleled low-noise transistors and a Burr-Brown SoundPlus™ op-amp. This creates the low-noise environment necessary for high gain operation while taking advantage of the best audio features of each section.

The moving magnet input runs into a dual low-noise FET circuit that provides a highly stable input impedance of 47k ohms. With adjustable capacitive loading from 0 to 680pF and gain up to 36dB it is well matched to modern moving magnet cartridges.

The output from the moving coil or moving magnet sections goes into a passive RIAA EQ network featuring precision resistors and polypropylene film capacitors. This produces a highly accurate frequency response that has only a +/-0.2dB deviation from ideal.

From there the signal goes into a balanced output stage utilizing Krell Current-Mode topology. This circuitry has greater bandwidth than traditional voltage-mode designs for exceptionally transparent and effortless sound quality.

POWER SUPPLY

The power supply utilizes a custom designed linear tracking regulator that is extremely quiet and stable. This is important for high gain circuits in order to reduce the overall noise level and ensure symmetrical treatment of positive and negative signal excursions.

FEATURES

The K-300p is very easy to setup and operate. All the loading and gain settings are accessible on the rear panel without the hassle of opening the unit. Moving coil or moving magnet inputs are selectable on-the-fly from the front panel. There is also a default input switch on the rear panel so the most commonly

used input can be set to come up whenever the K-300p is powered on. The absolute phase button on the faceplate can correct for recordings that may be phase inverted. And the infrasonic filter button engages a 14Hz critically damped high-pass filter that can eliminate low frequency acoustic feedback problems.

The K-300p is packaged in an attractive black or clear anodized aluminum and steel chassis that will fit on a standard rack shelf.

SPECIFICATIONS

Dimensions: 17.25 in W x 4.12 in H x 11.390 in D; 438 mm W x 105 mm H x 289 mm D

Weight: Unit only: 10 lb [4.5 kg]; As shipped: 15 lb [6.8 kg]

Inputs:

2 pr. single-ended via RCA connectors

RIAA accuracy:

+/- 0.2dB

Total harmonic distortion:

MC input 62dB gain: 0.08% (1kHz, 1V out)

MM input 36dB gain: 0.06% (1kHz, 1V out)

Outputs:

1 pr. single-ended via RCA connectors

1 pr. balanced via XLR connectors

Input Overload:

MC input 62dB gain: 3.4mV

MM input 36dB gain: 23mV

Signal-to-noise ratio:

MC input 62dB gain: 63dB (re:1V out, un-wtd. 20Hz-20kHz)

MC input 62dB gain: 77dB (re:1V out, "A" wtd.)

MM input 36dB gain: 75dB (re:1V out, un-wtd. 20Hz-20kHz)

MM input 36dB gain: 87dB (re:1V out, "A" wtd.)

Power consumption:

Maximum: 15 W

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