

Flat Response Magnetic Phono Cartridge Preamplifier

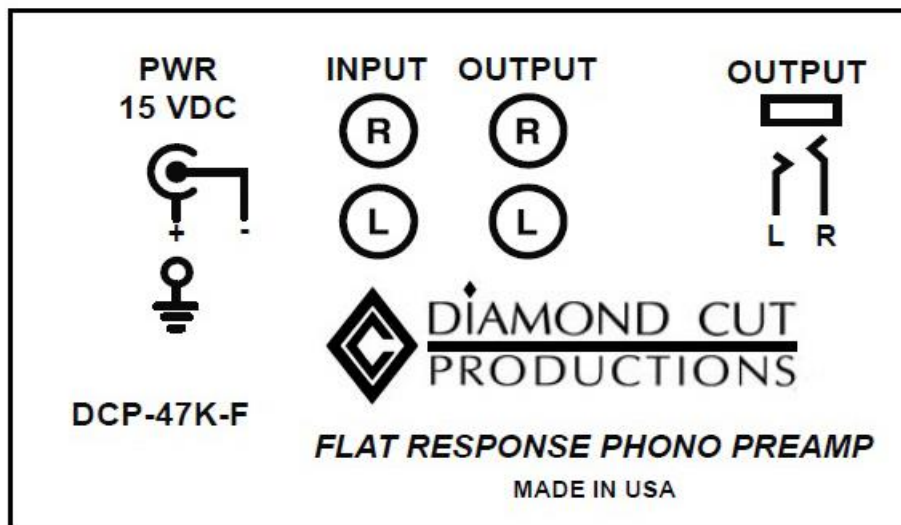
Diamond Cut Productions, Inc. Model DCP-47K-F

- **High EQ Curve Accuracy compared to Analog Systems**
- **Compatible with Diamond Cut Productions Software**
- **Wide Array of EQ Curves Available via the DCArt10.5 (& higher) Software**
- **Lower Intermodulation Distortion than conventional RIAA preamps**
- **No “EQ-Shift” when high speed or fractional speed re-mastering**
- **Exceptional Performance Specifications**
- **Gold Plated Connections for Static-Free operation**
- **Small Footprint compared to most phono preamps**
- **Linear Power supply rather than Switching Power supply (low noise design)**
- **All Steel Chassis provides effective Magnetic shielding in addition to E-field shielding**
- **Dual Output Connection Configurations**
- **Almost zero Output DC Offset**
- **Two Application Notes Support the use of the Preamp with DCArt Software (AN13 & AN14)**

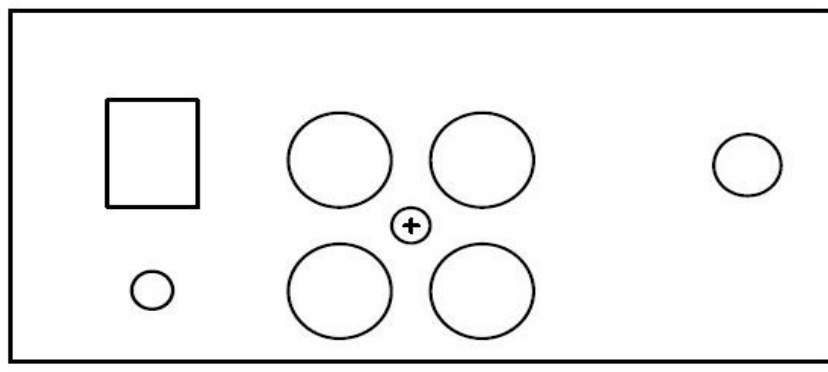
The Diamond Cut Production’s DCP-47k-F flat response magnetic phono cartridge preamplifier is intended for use with Diamond Cut Production’s audio restoration software which contains a Virtual Phono Preamplifier (VPP). Most phono preamplifiers include an RIAA curve within their design circuitry, which produces some distortion and does not perfectly re-create the RIAA curve. The DCP-47K-F produces a ruler-straight frequency response across the entire audio spectrum. By transferring your record(s) to your computer’s line input via the DCP-47K-F and then processing them through the Diamond Cut Productions Virtual Phono Preamplifier, you will be able to apply any of a variety of choices of EQ curves (including the RIAA curve) to the transferred record file. The Virtual Phono Preamplifier software algorithm then applies an EQ curve with a high degree of mathematical precision and lower inter-modulation distortion added to the signal. Because the phonograph signal is being transferred “flat” you can also perform fractional speed mastering or high speed dubbing without distorting the record’s EQ curve (sometimes called EQ Shift)*. These capabilities are beyond that of analog based phonographic EQ systems.

For operational details, refer to AN-13 and AN-14 on our website. This product can be purchased at www.diamondcut.com.

Note1: Most laptop computers do not have line-level inputs. You will either need a tower computer or an external sound card if you are to use a laptop.



DCP-47K-F Top View



DCP-47K-F Rear View

*Note2: For more information on the avoidance of EQ shift, refer to Diamond Cut Productions AN14.

DCP-47K-F Specifications

(Typical)

(Subject to change without notice)

Phono Cartridge Type Compatibility: Moving Magnet type (MM)

Voltage Gain into 50 K Ohms Load: 29 dB

Voltage Gain into 600 Ohm Load: 21 dB

Input Connectors: 2 x RCA type (Gold Plated)

Output Connectors: 2 x RCA type (Gold Plated) & 1/8th inch Stereo TRS type

Input Termination Resistance: 47,000 Ohms

Input Termination Capacitance: 5 pF (not including turntable cable capacitance)

Output Impedance: 1000 Ohms @ 1 kHz

Frequency Response: 20 Hz to 48 kHz +/- 0.5 dB

Slew Rate: 4 V/uSec (measured directly at outputs with no output cable connected)

Total Harmonic Distortion: 0.03% @ 1 KHz

Output DC Offset: Negligible into a 50 KOhm load or lower

Maximum Output Level: 8 Volts Pk-Pk @ 1 kHz into 50 k Ohms Load Resistance

Signal to Noise Ratio (S/N unweighted): 80 dB

Channel Separation (crosstalk): -50 dB at 1 kHz

Turntable Grounding Connector: 3-Way Binding Post (Gold Plated)

Indicators: 1 Power-On LED (Green)

Power Input: 12 – 18 VDC

Current Draw: 25 mA (both channels driven to max into 600 Ohm loads) @ 15 VDC input

Power Inlet Configuration: Barrel Type – 2.1 mm x 5.5 mm (tip is negative; barrel is positive terminal).

Operating Temperature Range: +5 to +40 degrees C (non-condensing dew point)

Dimensions (preamp): 3.5" x 2" x 1.5"

Construction: Steel

Power Supply: Wall Wart type, 120 VAC, 60 Hz input (~1 Watt power draw), 15 VDC Output (Supplied)

Shipping Weight: 1 Lb. (preamp + power supply + shipping materials)



Copyright © 2019, Diamond Cut Productions, Inc.

Made in U.S.A.