



PHA1 Phono Amplifier Module



Description

The Crescendo-Systems **PHA1** Phono amplifier module is designed as a high quality amplifier for use with MM and MC type phone cartridges. The **PHA1** features a switchable gain to accommodate cartridges with different output levels. Additionally, the high frequency roll-off caused by the cutting head, which is usually around 50KHz, can be compensated for as well. The **PHA1** strictly conforms to the RIAA curve with its three breakpoints at 75 μ s, 318 μ s and 3180 μ s.

The **PHA1** uses a hybrid technique to create the RIAA breakpoints. The first stage is an active stage that creates the two lowest frequency corners. The second stage is passive and forms the low-pass response at 3180 μ s; the 50KHz compensation is created in this second stage as well. In order to accurately follow the correction curve, the **PHA1** uses 1% metal film resistors throughout and 6 capacitors each 5% accurate in parallel in the critical compensation sections in order to average component variation even more.

Specifications

RIAA accuracy (20Hz – 20KHz)	Better than $\pm 0.25\text{dB}$
Corner frequencies	<5Hz, 50Hz, 500Hz, 2122Hz
Gain @1kHz Low Gain Mode High Gain Mode	40dB 50dB
Nominal output level	250mV _{rms}
Sensitivity @1kHz Low Gain Mode High Gain Mode	2.5mV _{rms} 0.8mV _{rms}
Total harmonic distortion	<0.01% (-80dBc)
Input impedance	100 Ω or 47k Ω selectable
Input capacitance	50pF to 400pF in 50pF steps
Output impedance	300 Ω
Power supply (specify on order)	110V 60Hz, 220V 50Hz
Dimensions (width, height, depth)	155 x 90 x 215 mm 6 1/16'' x 3 1/2'' x 8 1/2''

Pricing

USA	\$1495
Europe	Euro 1495

(All prices exclude shipping, VAT, and import duties where applicable)