

**Warning: The Pyxis is completely DC coupled and in the MM mode requires a suitable input load to prevent excessive DC offset on the outputs. Do not exit standby in the MM mode without a cartridge connected to the inputs if the outputs are connected to your system.**

**MC/MM Input Loading:**

R: 47 k $\Omega$  fixed, switchable 470  $\Omega$  and 220  $\Omega$  giving 47 k $\Omega$ , 470  $\Omega$ , 220  $\Omega$  and 150 $\Omega$ .

C: 47 pF fixed plus c. 9 pF parasitics, switchable 100 pF and 220 pF giving 56 pF, 156 pF, 276 pF, and 376 pF. External cable capacitances have to be added to this.

**MC**

Input sensitivity: 250  $\mu$ V rms @ 1 kHz, 5 cm/sec.

Rated output specified at 12 dB above sensitivity (1 mV rms, 1 kHz) to capture signal dynamics.

Gain: 65 dB @ 1 kHz.

Rated output: 1.8 V rms. Rated peak 3dB higher.

THD: <0.0002% @ 1 kHz, 1 mV rms input, <0.0003% @ 10 kHz, 10 mV rms input.

IMD: <0.002% CCIF 20 kHz/19 kHz 1:1 measured at rated output.

Three tone IMD: Boberley, Cordell and Klingelnberg metrics: <0.001% relative to rated peak.

S/N ratio: 82 dBA, relative to 1 mV rms @ 1 kHz. Shorted input.

Hum levels: >96 dB below rated output, shorted inputs.

RIAA compliance: 20 Hz - 20 kHz: within +/- 75 mdB.

Input overload levels, nominal gain @ 1 kHz: 5.5 mV rms (27 dB relative to input sensitivity)

**MM**

Input sensitivity: 2.5 mV rms @ 1 kHz, 5 cm/sec.

Rated output specified at 12 dB above sensitivity (10 mV rms, 1 kHz) to capture signal dynamics.

Gain: 45 dB @ 1 kHz.

Rated output: 1.8 V rms. Rated peak 3dB higher.

THD: <0.0002% @ 1 kHz, 10 mV rms input, <0.001% @ 10 kHz, 100 mV rms input

IMD: <0.003% CCIF 20 kHz/19 kHz 1:1 measured at rated output.

Three tone IMD: Boberley, Cordell and Klingelnberg metrics:<0.002% relative to rated peak.

S/N ratio: 98 dBA, relative to 10 mV rms @ 1 kHz input. Shorted input.

78 dBA, relative to 10 mV rms @ 1 kHz, 1.3 k $\Omega$  in series with 500 mH across input.

Load representative of typical (e.g Shure V15 III) MM cartridges.

Hum levels: >96 dB below rated output, shorted input.

RIAA compliance: 20 Hz - 20 kHz: within +/- 75 mdB.

Input overload level, nominal gain @ 1 kHz: 55 mV rms (27 dB relative to input sensitivity)

### **Other Features**

Output impedance: 50  $\Omega$  single ended.

Channel matching: better than 0.1 dB @ 1 kHz.

Channel separation: better than 80 dB @ 1 kHz.

DC offset: < 2 mV. Typical c. 1 mV.

Bandwidth: 0 to -3 dB: < 1 Hz - 150 kHz.

1% metal film resistors used throughout, with 0.1% in the critical gain and RIAA stages, together with 1% capacitors.

C0G capacitors used in the signal path- with measured distortion and dielectric absorption equivalent to Polypropylene capacitors.

Low offset, phase corrected DC feedback loop eliminates the need for coupling capacitors while reducing DC peaking in the RIAA characteristic.

OPA1612, OPA1656, and OPA2197 op amps.

No digital. All analog implementation, including linear supply regulators.

Relay switched output turn on delay.

External 14 V AC wall wart. Permanently on.

Internal +/-15 V supplies.

Front panel switch and relays control the audio channel on/off.

Power consumption: <5 W active, 0.1 W in standby.