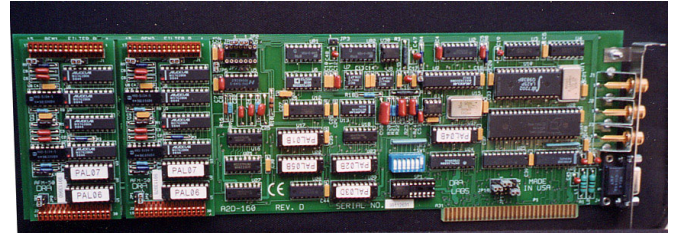


- Quasi-Pink Filter:  $\pm 0.1$  dB max. error
- Pink-MLS and White-MLS Outputs
- Protected Outputs Can Source 100 ma.
- Drives Long Cables and Low-Z Loads
- High Accuracy Z Measurements
- Supports 96 kHz Sampling
- Supports 16 MHz ISA Bus Speed



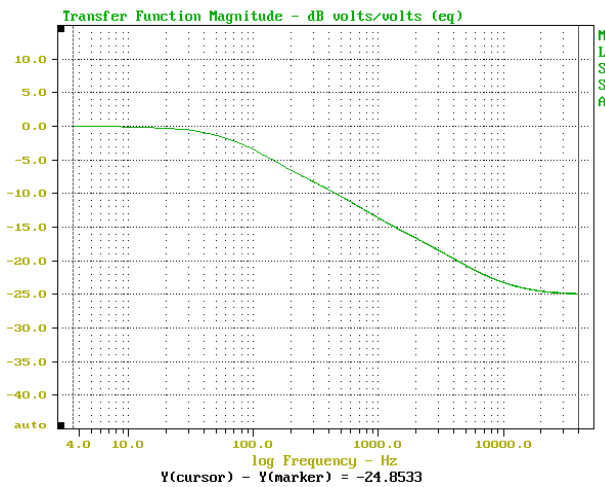
**MLSSA 2000 Mothercard**

The industry standard *MLSSA* Acoustical Measurement System now features a *MLSSA 2000* mothercard, an improved design offering both Pink-MLS and White-MLS outputs, higher output drive capability as well as 96 kHz sampling capability. The new design also has virtually zero input-to-output crosstalk.

**Precision Quasi-Pink Filter**

The *MLSSA 2000* mothercard includes a precision quasi-pink filter for faster and more noise immune measurements in noisy rooms. This filter also moderates the slew rate of the MLS stimulus thus lowering the chance that slew-induced distortion in the power amplifier will result in appearance of false reflections in the measured impulse response.

The filter's frequency response is shown below. It is a true pink filter between 100 Hz and 10 kHz meeting the requirements of ISO 3382 for room acoustics measurements. A fast precision time-domain digital correction filter is provided in software. Total error after correction is  $\pm 0.1$  dB max and typically  $\pm 0.05$  dB or less, as shown in the error curve below right.



Quasi-Pink Filter Frequency Response

**High Current Drive Capability**

The *MLSSA 2000* card includes high current output op amps able to source up to 100 ma on both the Pink-MLS and White-MLS outputs. These robust op amps are self-protecting against short circuits and thermal overloads. An on-board spare is included just in case.

**High Accuracy Impedance Measurements**

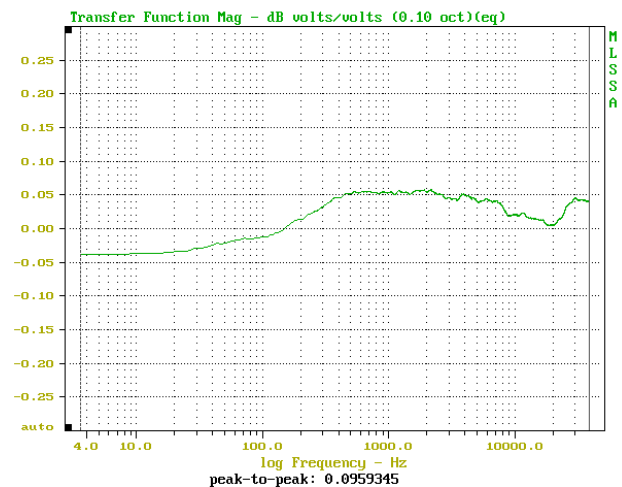
The *MLSSA 2000* card includes precision 75.5-ohm, 0.1% tolerance, 1-watt power resistors in both the Pink-MLS and White-MLS outputs. These resistors also improve the accuracy of Thiele-Small parameter measurements using *MLSSA SPO*.

**Exact 96 kHz Sampling**

The *MLSSA 2000* mothercard supports exact 96 kHz sampling for loudspeaker/room correction and auralisation applications. All sampling rates generated by older *MLSSA* cards are also available.

**MLSSA 2000 Mothercard Upgrade Kit**

Owners of older *MLSSA* cards can upgrade to the latest hardware and software by ordering a *MLSSA 2000 Mothercard Upgrade Kit*. At less than half the cost of a new *MLSSA 2000* system, this upgrade includes the *MLSSA 2000* mothercard and latest *MLSSA* software. Your old AFM-50 filters are reused.



Typical Error after Digital Filter Correction