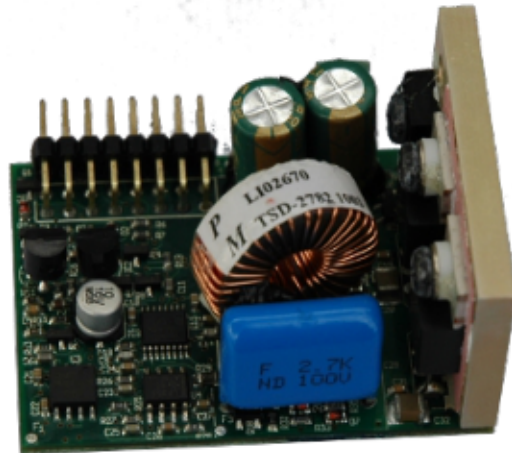


## Features:

- Patented One-Cycle Sound™ Control
- 1x 150W Switching Amplifiers
- Synchronized Switching Frequencies
- Output Feedback
- 117 dBA dynamic Range
- THD+N < 0.05%, 0.1W to 150W
- Full range 20 to 20kHz Bandwidth
- Efficiency: Amp > 95%
- Damping Factor > 375 @ 100Hz 4 Ohms
- DC offset < 25mV
- Remote Disable
- Silent Turn-On
- Full Protection:
  - Over Current Speaker Short
  - Over Current Short to Chassis Ground
  - Over Temperature Protection
  - Power Supply Under Voltage Lockout
- Monitor Outputs:
  - Output Current Monitor
  - Temperature Monitor
  - Protect and Power On
- Single Connector

## A-154 Amplifier



- Dimensions:
  - inches: 2.0 x 1.5 x 1.12
  - mm: 51 x 38 x 27

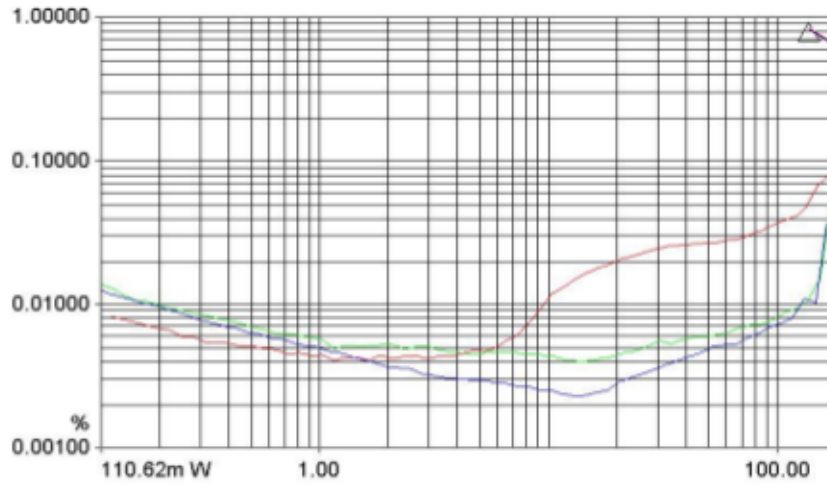
## Product Description:

The A-154 is PowerPhysics makes it simple to plug "One Cycle Sound™" PWM control method into your motherboard. It can also be used in combination with the A2-154 for systems with an odd number of channels and can be synchronized for trouble free use in multi channel systems. Temperature and current monitoring outputs are provided for off board analysis in our DSP series of preamplifier. The amplifier's half-bridge output stage is thoroughly protected against any type of output short or speaker fault to provide robust, long term operation. Instead of shutting down for protection the A-154 current limits until the fault condition is removed to provide audio for as long as possible.

The A-154 accepts a bus voltage up to +/-43 Volts for high peak power. Like all of PowerPhysics' A-series amplifiers, the A-154 is very efficient and a high bus voltage does not force the use of large heat sinks or fans. Musical transients have the headroom they need and unused power is not converted into heat.

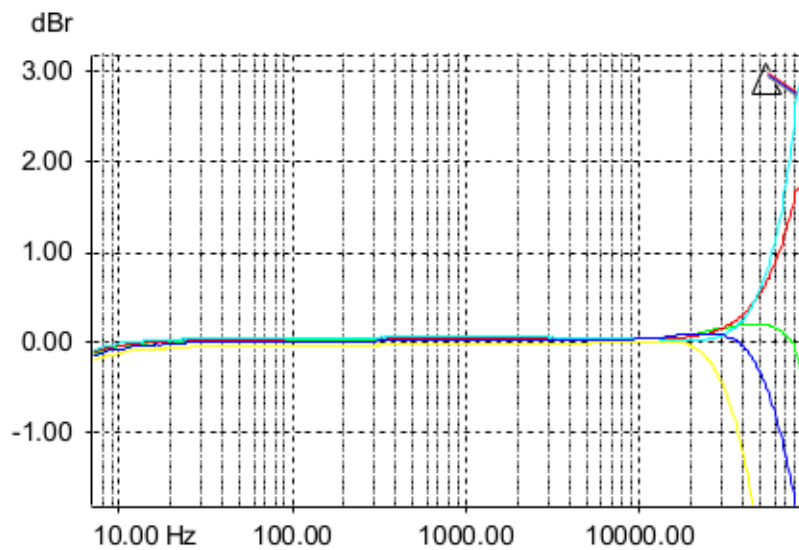
PowerPhysics sells the A-154 as a stand alone product. We also sell a wide variety of amplifiers, power supplies and preamplifiers to meet the needs of most audio electronics manufacturers. For a quotation on your custom application please give us a call.

## THD+N vs. Power



100Hz, 1kHz, 6.67kHz. AES17 Filter. 4 Ohm Load

## A-154 Frequency Response



1.5ohm, 2.25ohm, 4ohm, 8ohm, Open Loop. While Stable at 1.5ohms, the recommended minimum load is 2.5ohms