## LC Audio Technology 175\*119\*67mm Heat Sink Test

## Test Setup

A 50W aluminium case power resistor is mounted on the heat sink with thermal paste.

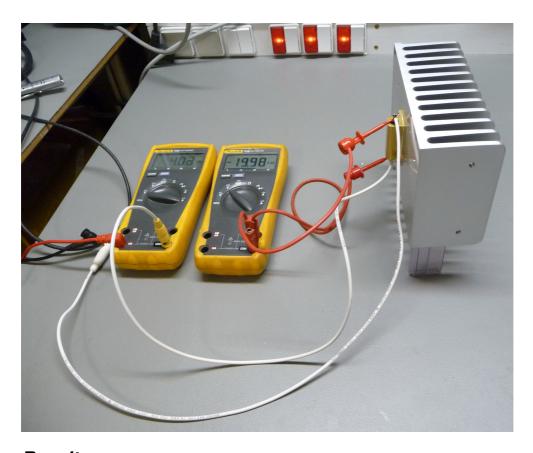
The heat sink is placed on two plastic spacers (=45mm) or four rubber feet (=13mm) over a table surface.

Power is applied from an external power supply.

Temperatures are measured with an infrared thermometer (Base Tech Mini1) at three points:

- 1) Right next to the power resistor
- 2) In the groove directly opposite the resistor
- 3) On the centre of the end of the heat sink

The thermometer is moved around the target points for maximum reads. The test is terminated when the temperatures are stable.



## Results

Н	Power	I	U	t_amb	t_1	t_2	t_3	Δt_max	Result
4.5 cm	80.5 W	4.03 A	19.98 V	22.8°C	70.5°C	73.0°C	61.8°C	50.2°C	0.62°C/W
4.5 cm	50.6 W	3.19 A	15.85 V	22.4°C	55.6°C	56.1°C	49.5°C	33.7°C	0.67°C/W
1.3 cm	50.6 W	3.19 A	15.85 V	22.3°C	56.1°C	57.1°C	50.2°C	34.8°C	0.69°C/W