



Test Procedure for the LV47004PGEVB Evaluation Board

TEST Procedure

Prepare “DC POWER SUPPLY”, capability is 40V or more and 20A or more. And “Digital MULTIMETER”, and “4ohm speaker” and “Oscillator” and “4ch Oscilloscope” and “Heat sink”

1. Recommendation “Heat sink”

Material: Aluminium alloy (A6000 type)

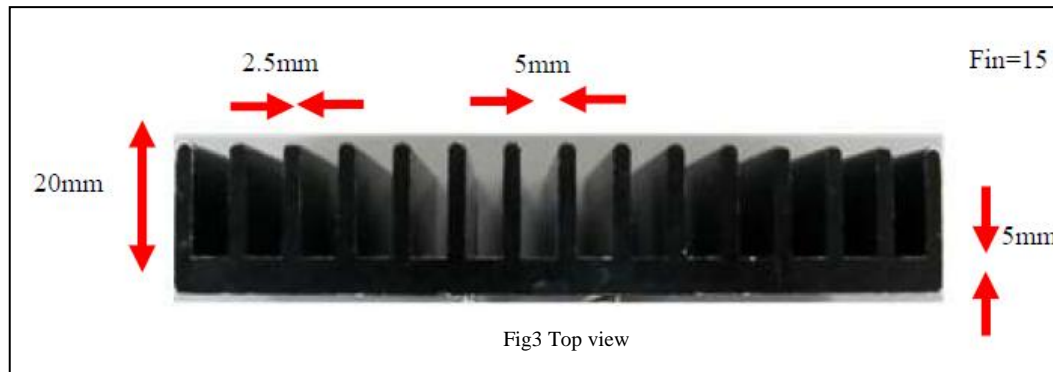
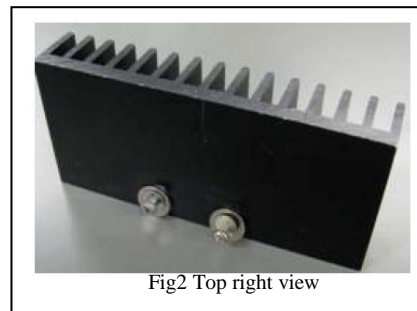
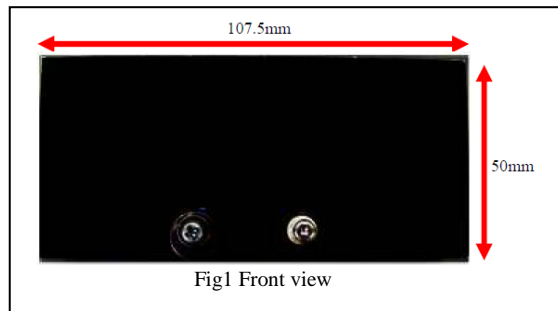
Surface treatment: Alumite (color : black)

Thermal resistance of heat sink (θ_f): 3 degree C/W

Thermal resistance between the junction and case: 1 degree C/W

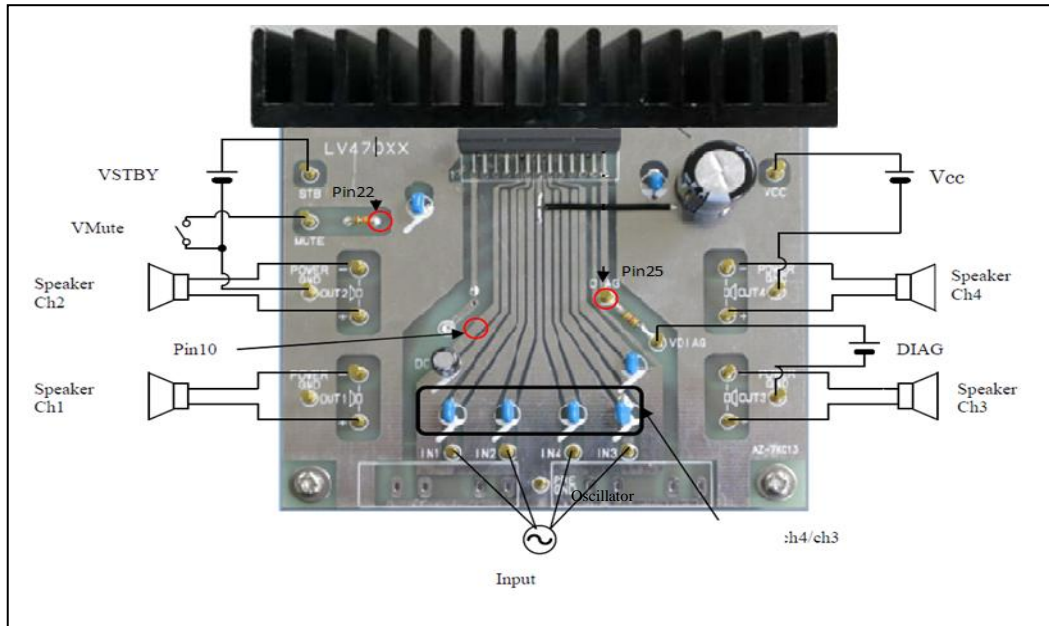
$\theta_{jc} + \theta_f = 4$ degree C/W

$\{ 150 \text{ degree C}(T_{jmax}) - 25 \text{ degree C}(T_a) \} \div 4 \text{ degree C/W} \rightarrow P_{dmax} \approx 30W$





2. Eva-board and Measurement instruments of cable connection.



3. VCC, Input, Output operation sequence Start up

- A. Vcc ON (Vcc=8V to 18V)
- B. AMP ON (STBY Pin=High: VSTBY=2.5V to Vcc)
- C. Mute OFF (Mute Pin=open: VMute switch close → open)
- E. Input signal ON

Shutdown

- F. Input signal OFF
- G. Mute ON (Mute Pin=Low: Vmute switch open → close)
- H. AMP OFF (STBY Pin=Low: VSTBY=0V)
- I. Vcc OFF