

**Product Details:**

- ❖ Five / Seven band graphic equalizer.
- ❖ Low power consumption and 3.3/5V operation.
- ❖ This product divides the audio spectrum into 7 bands and the seven frequencies are peak detected and multiplexed to the output to provide a DC representation of the amplitude of each band.
- ❖ The products are used in portable stereos, car stereos and in spectrum analyzer.

**Project Details:**

- ❖ This production test includes testing of all DC parameters such as Input leakage current, supply current, VREF voltage & Functional parameters for all the 7 bands.
- ❖ The functional test checks for the peak gain in the each of the seven selected bands and the interference with the adjacent bands. It also checks for the output offset voltage in the non-selected adjacent bands.

**Key Highlights:**

- ❖ The feedback resistor between the clock and the VCC pin has to be accurate and placed as close to the device as possible. Hence the hardware in the handler is modified accordingly.
- ❖ The input applied is pure Sine wave - whose amplitude is of very few milli volts.
- ❖ The strobe has to be perfect to select the exact band.

**Equipments Used:**

Tester : Credence ASL 1000, LTX 77  
Handler : MCT 3608