

Product Details:

- ❖ 4 + 1 Channel Laser Diode drivers + IV converters + Oscillators
- ❖ 4 Channel current controlled output current source for write operations + 1 channel current control for read operations
- ❖ Two on chip oscillators with frequency ranging from 250 to 400 MHz and amplitude in range of few 100 mV.
- ❖ The laser diode drivers are designed for use in CD, DVD and Cameras based Automation of Bench top equipments like V/I Meters, Oscilloscopes, etc.

Project Details:

- ❖ The project included the standard DC tests like Supply current test, leakage test, functional verification of the driver output current etc.
- ❖ To find the positive and negative peak to peak amplitude of the high frequency oscillator section.
- ❖ The maximum drive capacity of each driver sectioned has to be verified.
- ❖ The devices were to be characterized in bench, since it is the first release of the design and then has to be correlated with the ATE test measurements.

Key Highlights:

- ❖ The output frequency of the oscillator section is about 400 MHz and certain test mode conditions have to be established correctly in order to find the oscillator positive and negative amplitude peak measurements.
- ❖ The measurement of the drive capacity of any channel was depending upon the conditions of other channels and hence was set accordingly.

Equipments Used:

Tester : Credence ASL 1000