

CRYSTAL : LASER TEST

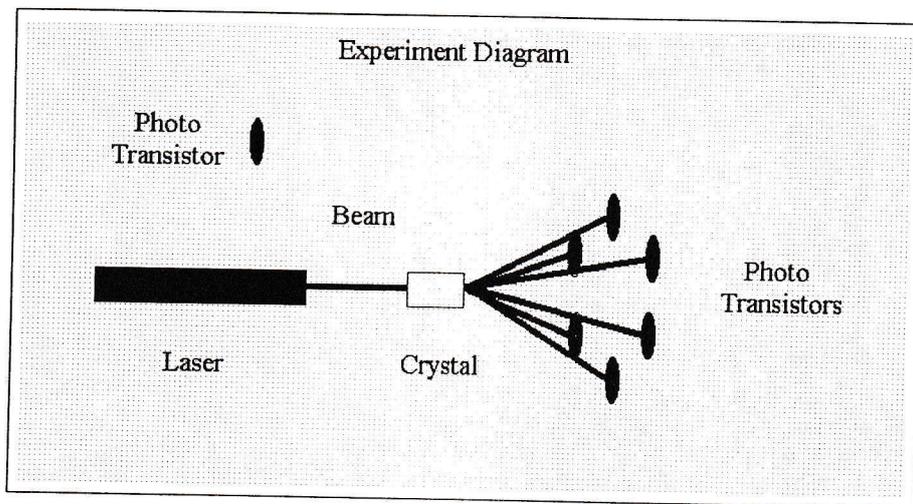
It was also recorded that when the voltage of the photo transistor was measured in the absence of any natural light (laser only) it still produced a value of 0.481 vdc. This would suggest that the nature of the components used in the experiment would yield the same test data in the absence of any natural light.

Using the resultant measurements it was determined that a drop of 0.033 vdc occurred when passing through the crystal, however we now had six beams with only a 0.033 voltage drop. Each of the six beams measured the same voltage using the photo transistor.

If we multiply the six voltage values we now have :

$$6 \times 0.448 \text{ vdc} = 2.688 \text{ vdc}$$

$$\text{Original input measurement} = 0.481 \text{ vdc}$$



Using the above Data we seem to have a greater output than input, however a permanent model of the device needs to be constructed and test data should be obtained on the current (amps) of all of the beams using the same test equipment and photo transistor to confirm 100% the amplification findings of this crude experiment.