

ABSTRACT

LEAD INSPECTION APPARATUS

The present invention includes a pedestal which is mounted on a transparent base plate. The pedestal has a mirror surface on its slanted edge. The electronic component to be inspected sits on top of the pedestal. The leads of the electronic component point downward and hang to the side of and away from the mirror surface. A diffused light source is located near the pedestal to illuminate the leads. When the leads are illuminated, the light rays reflecting off the leads and the rays reflecting off the angled mirror surface are reflected off another angled mirror and are captured by a CCD camera. The image generated from the combined light rays can be used to measure the pitch, coplanarity, and lead angle of the leads.

FIG. 1