

Product Overview

Custom Packaging Capabilities



Description:

Opto Technology Inc. has developed the capability of designing and manufacturing custom high-density and complex Chip on Board LED / PD modules. This unique engineering and manufacturing capability allows us to develop an illumination / sensing solution for the most complicated applications. Various LED and Photo-detector die can be assembled into a wide arrangement of packages from TO headers to ceramic flatware. In addition, we can design and integrate additional optical components to complete the optical solution.

Available Wavelengths / Sensitivities

- UV: 375nm, 395nm (365nm will be available in 2004)
- Visible: 405nm / 430nm / 470nm / 490nm / 505nm / 530nm / 565nm / 590nm / 620nm / 630nm / 660nm / 680nm / 700nm
- IR: 740nm / 770nm / 810nm / 840nm / 870nm / 880nm / 910nm / 935 nm / 980nm / 1020nm / 1300nm
- Photodiodes: Infrared, Visible, UV Sensitivities
(Many other wavelengths available. Please consult the factory for additional information)

Available Packages / Substrates

- Headers: TO5, TO8, TO39, TO46, TO66
- Substrate Materials: AlN, Al, BeO
- PCB: FR4, Metal Core
- Molded Plastic Housing for Integrating Optical Components

Integrated Optics:

- Custom Optical Lens (Parabolic, Fresnel, TIR, Micro, etc.)
- Integrated photo-detectors / Photo IC's / current control drivers
- Optical Filters, Mirrors, and Coatings

Applications:

- Clinical Chemistry Diagnostic Instrumentation
- DNA (QPCR Fluorescence) Detection
- Monochromatic Light Illumination
- Machine Vision & Industrial Illumination
- UV fluorescence detection, absorption and curing

Typical Custom Reflective Sensor:

