

# 3mm Square

## microLED® Optopipe™

### Optical Light Pipe, Quad High

# Dialight

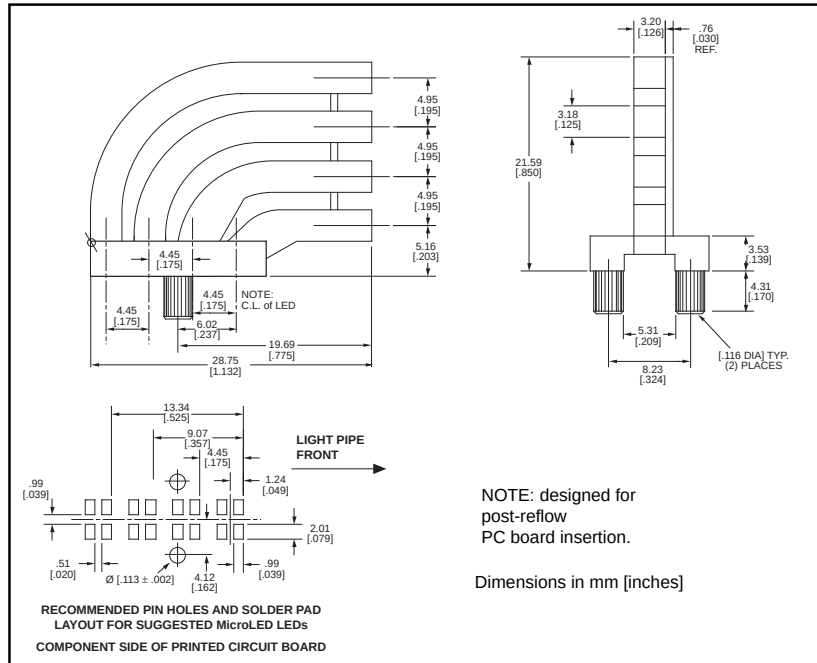
## 515-1023

2

## Recommended MicroLED SMT LEDs for use with 515-1023

| PART NO.            | COLOR             | PAGE #      |
|---------------------|-------------------|-------------|
| 597-3001-1xx        | Red               | 2-28        |
| <b>597-3111-1xx</b> | <b>AlGaAs Red</b> | <b>2-28</b> |
| <b>597-3211-1xx</b> | <b>Orange</b>     | <b>2-28</b> |
| 597-3301-1xx        | Green             | 2-28        |
| 597-3401-1xx        | Yellow            | 2-28        |
| 597-7701-1xx        | Red/Green         | 2-29        |
| 597-7721-1xx        | Yellow/Green      | 2-29        |
| 597-7731-1xx        | Red/Yellow        | 2-29        |

***Bold Italic designates New Product***



## Benefits

- High transmissivity polycarbonate material
- UL94V-0 compliance
- ESD protection (circuit isolation from front panel)
- Wide viewing angle
- Arrays reduce insertion costs
- Allows quad level SMT indicators
- Secures to PCB by press-fit

## LED Data

For absolute maximum ratings and other electrical and optical data on the recommended LEDs, refer to LED data sheets.

## Operating/Storage Temperature

–30°C to +100°C

## Dialight Optopipe Light Pipe Applications

Light pipes are used in surface mount applications in which a discrete SMT LED is automatically placed on the PC board, and the emitted light needs to be displayed on the front panel of the equipment. The light pipe is inserted into the PC board following the surface mounting process, and transmits the light to the front panel.

Each light pipe is designed to transmit the light of a specific MicroLED LED, and its shape is defined by a CAD ray tracing program to optimize its light transmission efficiency. A well-designed light pipe will provide an optically efficient and aesthetically uniform solution.

Light pipes are required when (a) LEDs are located a distance from or are emitting light in a different direction from the front panel; (b) arrays (rows and/or columns) of SMT indicators are required on the front panel; (c) unique shapes for the indicators are needed; (d) additional protection against ESD (electrostatic discharge) is desired, as the LED is isolated by the polycarbonate light pipe material.

In addition to our range of standard products, Dialight can provide custom light pipe solutions for your applications. Contact your local representative, listed in the Appendix, for further information.