



# MEMS OPTICAL

## Stock Microlens Arrays

*MEMS Optical now offers silicon stock microlens arrays diced to order and designed specifically for use in telecommunications applications. Our Gray Scale production method allows us to manufacture microlens arrays with extraordinarily low spherical error and insertion loss. Our lenses are manufactured in wafer form, so we are able to dice out any configuration, either 1D or 2D; as defined by our customer. The result is a fast turn around time with excellent uniformity and low insertion loss. Custom microlens designs are also available.*



**Undiced Stock Silicon Microlenses**

### Features and Benefits:

- 1D & 2D Configurations Diced to Order
- Pitch: 1.5mm  $\pm$  10nm
- Diameter: 1.0mm
- Focal Length: 2.0mm  $\pm$  0.5% for 1D Arrays
- Thickness: 1mm
- Insertion Loss < 0.45 dB typical
- Designed for Telecommunication Wavelengths

### Applications:

- DWDM (MUX, DeMUX, Optical add/drop)
- Optical Switches
- Optical Amplifiers
- Optical Isolators
- Variable Optical Attenuators
- Waveguide to Fiber Coupling