# **J16SI SERIES** SILICON/GERMANIUM "SANDWICH" DETECTORS **Operating Instructions**



# PB 1602

## October 2000

### Description

LED -

LED -

Two color detectors consist of a high performance Silicon detector mounted in a "sandwich" configuration over another detector.

The silicon photodiode responds to radiation from 400 nm to 1000 nm. Longer wavelengths pass through the silicon and are detected by the detector underneath.

J16Si Series detectors are ideal for optic power measurements that need to differentiate between 800nm and either 1300nm or 1550nm. They are also useful for two-color temperature measurements from 500°C to 2000°C.

The Si and Ge elements each require a preamplifier. A Teledyne Judson model PA-7 is recommended for each element.

## Dual-Wavelength Power Meter Application



## **Applications**

- Dual-Wavelength Power Meters
- Wavelength Demultiplexers
- Pyrometers

J165





#### 8A4 Package



With Wind

Side View

**Two-color Temperature Sensor Application** 

Fiber Multi-plexer



Note: I, is intensity of light at specified wavelength



Information in this document is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or omission Specifications are subject to change without notice



221 COMMERCE DRIVE MONTGOMERYVILLE, PA 18936-9641 PHONE: 215-368-6901 FAX: 215-362-6107 www.teledynejudson.com

#### Typical Specifications J16Si Series Ge @ 22°C