



**DFB Laser Diode, 1550nm**  
**- Available Across C-Band ITU Grid**  
**- 10mW Output Power, PM Fiber, FC/APC**

- DFB Laser Diode Available at ITU Grid (100 GHz Spaced) Center Wavelengths from 1528nm ~ 1563nm
- Primary Applications Include Spectroscopy, Fiber Optic Sensing, WDM Testing
- 2 MHz Spectral Linewidth
- PM Fiber Pigtail with FC/APC Connector
- Butterfly Package with TEC, Thermistor, Monitor PD and Isolator

**DFB-1550-SWLD DATA SHEET**

**WORLD LEADING PRODUCTS  
FOR LASER SCIENTISTS AND ENGINEERS**

## SPECIFICATIONS DFB-1550-SWLD

### LASER DIODE SPECIFICATIONS

Optical Output Power (min): 10mW

Center Wavelength: ITU grid, Customer Specified Wavelength (PLEASE REQUEST SPECIFIC WAVELENGTH)

Forward Current (max): 400 mA

Operating Current (typical): 100 mA

Laser Reverse Voltage (max): 2 V

TEC Temperature Set-Point Range: 15C ~ 35C

Laser Forward Voltage (max): 3 V

Optical Isolation (min): 30 dB

Side-mode Suppression Ratio (SMSR) (typical): 45 dB

Spectral Linewidth (FWHM) (typical): 2 MHz

Bandwidth (@-3dB) (typical): 2.5 GHz

PD Reverse Voltage (typical): 5 V

PD Forward Current: 0.7 mA

PD Monitor Dark Current ( $V_r = -5V$ ):  $< 0.1 \mu A$

TEC Current:  $< 1.5$  Amps

TEC Voltage:  $< 3.5$  Volts

Thermistor Resistance (25 °C):  $\sim 10$  Kohm

Storage Temperature: -20C to +70C

### FIBER SPECIFICATIONS

Fiber Type: Polarization Maintaining (PM), Panda

Connector: FC/APC

Fiber Pigtail Length:  $\sim 100$  cm

### PIN LAYOUT

