DFB-P-CX

CWDM Pulse Laser 1270 nm to 1610 nm, Coaxial DFB w/Fiber Output

Laser Source Diode

The DFB-P-CX is a CWDM pulse coaxial DFB-LD for CWDM analog communication, HFC return-path, laboratory instrument, and R&D applications. This cost-effective, high reliability DFB laser chip has a selectable wavelength with range between 1270 nm and 1610 nm. The versatile DFB-P-CX also features a built-in InGaAsP monitor photodiode, built-in optical isolator and 4-pin coaxial-pigtailed package, single mode coupling, and an FC/APC connector.

FEATURES

- Selectable Wavelength: 1270 nm to 1610 nm
- 4-PIN Coaxial-pigtailed, Single Mode Coupling
- High Reliability DFB Laser Chip
- Up to 50 mW Peak Power
- Built-in InGaAsP Monitor Photodiode
- Built-in Optical Isolator

USE IN

- OTDR and Reflectometer
- LIDAR and Fiber Sensor
- Laboratory Instrument
- R&D Applications

ORDERING OPTIONS

DFB-P-CX-XXXX

XXXX: Wavelength in Nanometer

1270 nm, 1290 nm, 1310 nm, 1330 nm, 1350 nm, 1370 nm, 1390 nm, 1410 nm, 1430 nm, 1450 nm, 1470 nm, 1490 nm, 1510 nm, 1530 nm, 1550 nm, 1570 nm, 1590 nm, 1610 nm

1002 Coaxial DFB Laser Diode

Threshold Current	8 mA typ.
Operating Current	100 mA max.
Pulse Rise Time	300 ps typ.
Monitor PD Current	50 uA min.; 2 mA max.
Monitor PD Dard Current	10 nA max.
Photodiode Capacitance	10 pF min.
Center Wavelength	1270 nm to 1610 nm (See Order Option for More Detail)
Wavelength Tolerance	±2 nm
Optical Isolation	20 dB
Optical Output Power (Peak)	30 mW @ 10 us Pulse
Laser Linewidth .	0.1 pm max.
Minimum Pulse Width	3 ns typ.
Side Mode Suppression Ratio	40 dB typ.
Relative Intensity Noise	-145 dB/Hz typ.
Laser Diode Reverse Voltage	2 V
Laser Diode Forward Current	150 mA
Monitor PD Reverse Voltage	15 V
Monitor PD Reverse Current	2 mA
Operating Temperature	-20°C to +75°C
Storage Temperature	-40°C to +85°C
Power Supply Voltage	1.2 V typ.; 2.0 V max.
Optical Connectors	FC/APC, Other Types Available
Optical Fiber	SMF-28 with 900 μm or 3 mm Jacket
Housing	Coaxial with Fiber Pigtail

Laser Source Diode