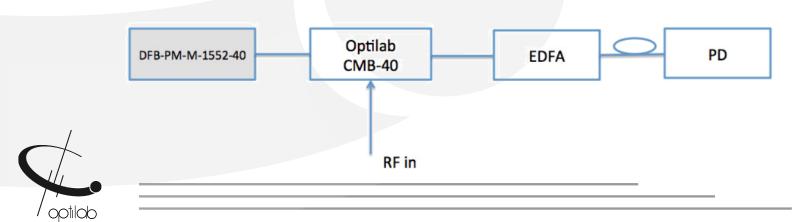




| • | | 0-band: 1290-1350 nm |
|---------------------|---|--|
| SPECIFICATIONS | Available Wavelength Range | C-band: 1528-1564 nm |
| | | See attached Table 1.0 |
| | Wavelength Accuracy | Within ±50 pm |
| | Output Power Level | 10 mW, 20mW, 30 mW, 40 mW |
| GENERAL | Output Power Stability | ±0.2 dB over 8 hours |
| | Wavelength Stability | ±10 pm over 8 hours |
| | Laser Linewidth | 2 MHz typ. 500 KHz available |
| | Side Mode Suppression Ratio | 4D dB min. |
| | Optical Isolation | 30 dB typ. |
| | Relative Intensity Noise (RIN) | -145 dB/Hz min., -155 dB/Hz available |
| | Polarization Extinction Ratio | 20 dB typ. |
| ADJUSTABLE FEATURES | DFB Power Output | 10-100% adjustable range |
| AND OUTPUT | DFB Wavelength Tuning | ±1.5 nm (from wavelength center) |
| AND OUTPUT | Operating Temperature | +10°C to +50°C |
| AND OUTPUT | Operating Temperature Operating Temperature (TQ Version) | +10°C to +50°C -55°C to +70°C |
| AND OUTPUT | Operating Temperature Operating Temperature (TQ Version) Storage Temperature | +10°C to +50°C -55°C to +70°C -65°C to +85°C |
| AND OUTPUT | Operating Temperature Operating Temperature (TQ Version) Storage Temperature Operating Humidity | +10°C to +50°C -55°C to +70°C -65°C to +85°C 0% to 85% Relative Humidity |
| AND OUTPUT | Operating Temperature Operating Temperature (TQ Version) Storage Temperature Operating Humidity Power Supply | +10°C to +50°C -55°C to +70°C -65°C to +85°C 0% to 85% Relative Humidity 5 V DC, 500 mA |
| AND OUTPUT | Operating Temperature Operating Temperature (TQ Version) Storage Temperature Operating Humidity Power Supply Power Consumption | +10°C to +50°C -55°C to +70°C -65°C to +85°C 0% to 85% Relative Humidity |
| | Operating Temperature Operating Temperature (TQ Version) Storage Temperature Operating Humidity Power Supply | +10°C to +50°C -55°C to +70°C -65°C to +85°C 0% to 85% Relative Humidity 5 V DC, 500 mA 5 W max. |
| | Operating Temperature Operating Temperature (TQ Version) Storage Temperature Operating Humidity Power Supply Power Consumption Dimensions | +10°C to +50°C -55°C to +70°C -65°C to +85°C 0% to 85% Relative Humidity 5 V DC, 500 mA 5 W max. 130 x 49.50 x 21 mm |
| | Operating Temperature Operating Temperature (TQ Version) Storage Temperature Operating Humidity Power Supply Power Consumption Dimensions Control/Monitoring | +10°C to +50°C -55°C to +70°C -65°C to +85°C 0% to 85% Relative Humidity 5 V DC, 500 mA 5 W max. 130 x 49.50 x 21 mm LD Current, Laser Wavelength |
| | Operating Temperature Operating Temperature (TQ Version) Storage Temperature Operating Humidity Power Supply Power Consumption Dimensions Control/Monitoring Remote Control | +10°C to +50°C -55°C to +70°C -65°C to +85°C 0% to 85% Relative Humidity 5 V DC, 500 mA 5 W max. 130 x 49.50 x 21 mm LD Current, Laser Wavelength RS-485 or USB |
| | Operating Temperature Operating Temperature (TQ Version) Storage Temperature Operating Humidity Power Supply Power Consumption Dimensions Control/Monitoring Remote Control Optical Connectors | +10°C to +50°C -55°C to +70°C -65°C to +85°C 0% to 85% Relative Humidity 5 V DC, 500 mA 5 W max. 130 x 49.50 x 21 mm LD Current, Laser Wavelength RS-485 or USB FC/APC; Other options are available |

APPLICATION EXAMPLE FOR 40G RFoF ANALOG LINK



Product specifications and description are subject to change without notice. © 2022 Optilab, LLC. DFB-PM-M Aug 2022 Rev. 1.2



MECHANICAL DRAWING AND PIN OUT

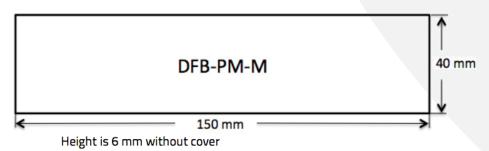


TABLE 1.0 AVAILABLE DFB-PM WAVELENGTHS FOR O-BAND AND C-BAND

O-BAND

C-BAND

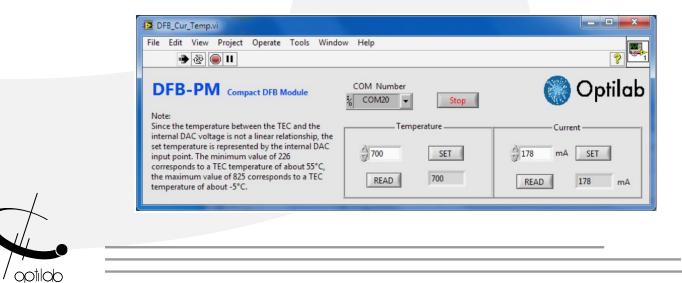
L-BAND

L-band wavelength is available upon request.

| Wave | elength |
|------|---------|
| 129 | 0 nm |
| 131 | 0 nm |
| 133 | 0 nm |
| 135 | i0 nm |
| | |

REMOTE LABVIEW INTERFACE

Optilab offers remote interface via Labview software, for parameter adjustment and status monitoring, contact Optilab for more details.





DETAILED MECHANICAL DRAWING

