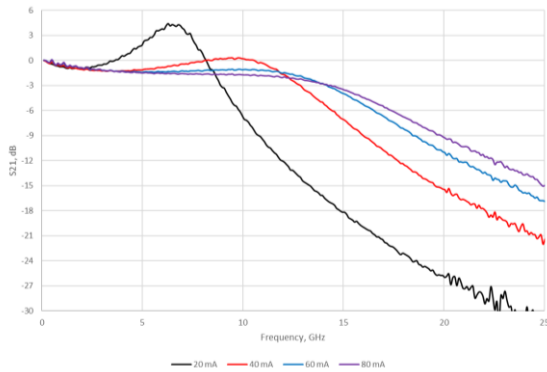
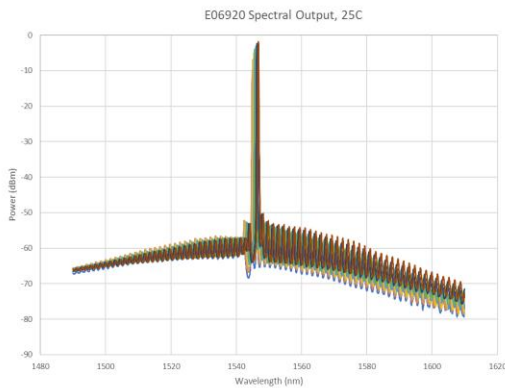


10G Directly Modulated DFB

Pilot Photonics offers O-band and C-band Distributed Feedback (DFB) lasers with frequency response above 12.5 GHz for applications that require high speed direct modulation. The laser is packaged in a fiber coupled 7-pin butterfly package with RF (K) connector.



Typical Modulation Response



Typical Spectral Output

Typical Specifications

Wavelength	1310 nm ± 5 nm 1545 nm ± 5 nm 1560 nm ± 5 nm
Optical Power	10dBm @ 50 mA
Modulation Bandwidth	>12.5 GHz -3 dB, 50 mA, 25 °C
RIN	< 145 dB @ 50 mA
Threshold Current	~ 12 mA @ 25°C
SMSR	> 35 dBm @ 50 mA

Features

- Wavelength tunable across 5nm using temperature
- Output power 10dBm
- High -3dB bandwidth > 12.5 GHz
- Compact butterfly laser package with RF connector, built-in TEC, thermistor, and optical isolator
- Single mode or polarisation maintaining fibre coupled output

Applications

- Direct modulation data transmission
- High speed optical communications
- Radio over fibre applications
- Laboratory testing and measurement

Available in a Lyra driver module.

The LYRA driver module provides four channels of DC current and one channel of temperature control. Each module consists of rugged metal housing containing a heat-sink and embedded control electronics. On the back panel it has 3 ports: DC power, USB for computer control, and REMOTE control. On the front panel there are two ports, the optical output (FC-type), and an RF connector, through which the RF or data signal is applied.

