

40 GHz Transmission Link

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Product Description

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The LT-40-M is a 40 GHz bandwidth lightwave transmitter module that uses a low noise, narrow linewidth, 1550 nm distributed feedback (DFB) laser diode as Continuous Wave (CW) light source. The LT-40-M can also be used for digital transmission when driven by a wideband modulator driver.

LR-45-M is a general purpose 45 GHz bandwidth Lightwave Receiver module that utilizes a high sensitivity, wide bandwidth PIN photodiode and linear pre-amplifier that provides optical to electrical (O/E) conversion to frequency range up to 50 GHz.

Features

- Wide Bandwidth up to 45 GHz
- Highly Linear for Analog Transmission
- Digital or Analog Signals
- High Dynamic Range
- Low Noise

Applications

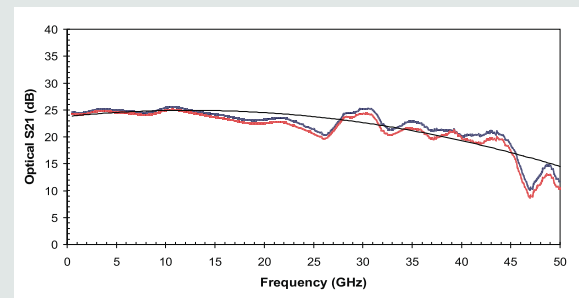
- Optical Communication to 40 Gb/s
- Wideband RF Transmission over Fiber
- RF/IF Signal Distribution
- Antenna Remoting
- Optical Delay Lines
- Satellite Communication

Transmitter Specifications: LT-40

Operating Wavelength	1550 nm \pm 10 nm, ITU wavelength available
Optical Output Level	+4 dBm to +8 dBm
Optical Return Loss	50 dB typ.
Linewidth (FWHM)	1 MHz max.
Frequency Response Flatness	\pm 0.5 dB in any 1GHz bandwidth
Analog Bandwidth	0.01 to 40 GHz
Modulation Bandwidth	Up to 40 Gb/s
Dimensions	208 mm x 108 mm x 30 mm

Receiver Specifications: LR-45

Optimized Operating Wavelength	1250 nm to 1650 nm
Optical Input Level	3 dBm max.
S21 3 dB Bandwidth	45 GHz typ.
Useful Bandwidth	60 KHz to 50 GHz
Receiving Bandwidth	Up to 40 Gb/s
Dimensions	162 mm x 170 mm x 33 mm



Typical S21 Response

Ordering Information

LT-40-M

LR-45-M

 **OEQuest.com**

To order this product online, visit our site at oequest.com