10G EML Light Source Module

This light source module combines an electronic driver and control circuit with a special EM laser diode. The product features low modulated voltage, low power consumption, and high speed.

Overview

High-Performance EML Light Source

The 10G EML Light Source Module integrates an electronic driver, control circuit, and a specialized EM laser diode into a single semiconductor chip. By combining an electrical absorptive modulator with a CW laser, this module achieves low modulated voltage, minimal power consumption, and high-speed operation. It is an ideal solution for demanding 10Gbps/40Gbps high-speed optical fiber communication systems and RF-MW photonics applications.

Optical Performance

Output Power

2 mW	4 mW
Min Power	Max Power

Side-Mode Suppression Ratio

35 dB	40 dB
Min SMSR	Max SMSR

Center Wavelength (ITU)	1525 nm
Extinction Ratio	8 dB

Electrical & Operational

Modulator Rate

10 Gbps	11.1 Gbps
Min Rate	Max Rate

Driving Voltage	<2.5V
Threshold Current	25 mA
Power Supply	DC 5V/2A
Operating Temperature	-5°C to 75°C

Connectivity & Physical

RF Connector

SMA

Available Dimensions

- 90x70x18 mm³
- 320x220x90 mm³

Fiber Type	PM, SM

Applications

Primary Applications

- 10Gbps High-speed optical fiber communication systems
- 40Gbps High-speed optical fiber communication systems
- RF-MW photonics