

## FLPD-775-30-FBG-BTF

### Laser Type: Fiber-Coupled-Laser-Diodes

Fiber coupled lasers combine the benefits of high-intensity laser sources with the practical advantages of optical fiber technology, resulting in a powerful and adaptable tool for a wide range of industries and applications.

### Laser Type: FBG

Fiber Bragg Grating (FBG) Stabilized Laser Diodes are advanced laser devices that integrate a Fiber Bragg Grating within their optical path to achieve exceptional control and stability of the output wavelength. The core component of these devices is the laser diode, which generates coherent light across a broad range of wavelengths centered around a specific value. However, the key feature that differentiates Fiber Bragg Grating (FBG) Stabilized Laser Diodes from conventional laser diodes is the inclusion of the Fiber Bragg Grating.

### Wavelength Range: IR

Infrared (IR) radiation is a type of electromagnetic radiation with wavelengths longer than visible light but shorter than microwave radiation.

### Mode: multimode

Multimode lasers typically exhibit lower beam quality compared to their single-mode counterparts, characterized by higher beam divergence and lower spatial coherence. However, they can achieve higher output powers because they utilize the gain medium more efficiently by supporting multiple modes. This makes multimode lasers particularly useful in applications where high power is more critical than beam precision, such as cutting, welding, and certain medical treatment

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