Bulgarian Tunable Optical Module Resistant to Low Temperatures



Overview

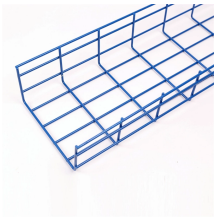
We realized a prototype series of the 1550-nm band wavelength-tunable laser module. The edge-emitting Fabry-Perot diode laser operates in the short external cavity configuration and is tuned by a silicon surface micromachined Fabry-Peacuterot interferometer device. Titoptic Ltd is a private limited liability company established in 2020 in the city of Sofia, Bulgaria. Titoptic Ltd exports 100% of its products to companies in. Micro Optics Europe has more than 20 years of experience in mass and prototype production of optical components, assemblies, and microsystems for medical, dental and space industries. The company was part of OPTIX JSC, a Bulgarian company, specialized in the design and manufacturing of optical. COB LED modules have emerged as a transformative technology in commercial and architectural lighting, offering distinct advantages over traditional discrete LED arrays in applications demanding high lumen density, superior thermal performance, and precise optical control. Unlike fixed-wavelength lasers, which are optimized for a single spectral line, tunable lasers employ mechanisms — such as temperature. precedented stability and resolution. The compact and reliable TFN is available in two models: reflection R) and transmission-

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reflection (T+R). The narrowband option enables bandwidths from 2 GHz to 100 GHz, and the ultra-narrowband option enab se and accurate narrowband filtering.

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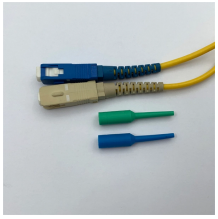
After Bulgaria''s admission to the EU, we equipped a new laboratory for research, measurements and control of the optical components, with the measuring equipment purchased by the best ...



This tunable lasers buying guide provides technical background, comparison of major types, selection criteria, and an overview of suppliers.



Titoptic Ltd is a private limited liability company established in 2020 in the city of Sofia, Bulgaria. We are specialized at manufacturing of precision optical components for optomechanic, optoelectronic ...



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This 50-70% reduction in thermal resistance translates directly to lower junction temperatures and improved reliability. Luminous efficacy in quality COB LED modules reaches 130-180 lumens per ...

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	Easy Integration: Comes equipped with control software that makes this tunable filter ready-made for advanced fiber-optic systems requiring precise tuning and excellent sideband suppression.
	By integrating a monitoring photodiode (MPD) within the optical module and implementing a temperature current control algorithm, efficient wavelength locking is achieved ...
	Wide variety of optical coating according to specific customer requirements in as little as 2 weeks. Every stage of the process is carried out according to stern procedures, to ensure maximum quality and ...

Contact Us

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