

Lithium Niobate Optical Module Chip Manufacturers



Article Overview

Key manufacturers of lithium niobate optical module chips include Fujitsu, Sumitomo, TSMC, HyperLight, Liobate Technologies, Advanced Fiber Resources, and Shanghai Anpaixinyan Technology.

Leading Companies in TFLN Chip Production

- Fujitsu: Produces high-performance optical modulators and integrated photonic devices, focusing on optical interconnects and data center applications .
- Sumitomo Metal Mining Co., Ltd.: Supplies lithium niobate materials and chips, leveraging its expertise in crystal growth and electro-optic devices .
- TSMC: Engaged in wafer-level fabrication of thin-film lithium niobate chips, supporting high-speed optical networks .
- HyperLight Corporation: Specializes in scalable TFLN manufacturing and high-speed photonic integrated circuits (PICs) for next-generation optical networks .
- Liobate Technologies Limited: A Chinese company providing full-stack innovation and mass production of optical modulators .
- Advanced Fiber Resources (AFR): European-based manufacturer of high-speed TFLN optical chips, focusing on low-loss, high-bandwidth modulators .
- Shanghai Anpaixinyan Technology Co., Ltd.: Engaged in thin-film lithium niobate chip production for optical communication applications .
- Ori-Chip Photonics: Emerging innovator in ultra-fast, low-power modulator design with end-to-end manufacturing capabilities .
- Ningbo Yuanxin Optoelectronic Technology Co., Ltd. and Tianjin Lingxin Technolog...

Article Content

Thin film lithium niobate on sapphire for integrated mid-infrared ...

LNOS preserves the electro-optic advantages of lithium niobate while enabling low-loss, high-confinement

Thin-Film Lithium Niobate Modulators: Speed Revolution

Traditional lithium niobate modulators were bulky and challenging to integrate, but LIGENTEC's heterogeneous

Ultra-Low-Loss Slow-Light Thin-Film Lithium Niobate Optical Modulator

Here it is proposed and demonstrated a low-loss high-efficiency thin-film lithium niobate Mach-Zehnder modulator

Liobate TFLN Chips

Liobate offers high-performance TFLN chips built on proprietary thin-film lithium niobate technology. These advanced photonic

The Return of Lithium Niobate — From Bulk Modulators

The emergence of thin-film lithium niobate (TFLN) brings this proven material into the domain of integrated

Key Trends in Lithium Niobate Electro-Optical Modulators: Growth ...

Gain a comprehensive overview of the lithium niobate electro-optical intensity modulator market, focusing on trends,

Ultra-Compact, Fully Packaged Broadband Thin-Film Lithium Niobate ...

Broadband, compact electro-optic modulator is one of the key components in optical communication networks and microwave

HC Photonics Corp.

HC Photonics (HCP), founded in 2000, develops and manufactures nonlinear optical devices based on periodically poled lithium

11 Lithium Niobate Manufacturers in 2026

Lithium niobate exhibits piezoelectricity, generating surface electrodes in response to applied pressure, and nonlinear optical effects,

Top 10 Companies in the Lithium Niobate Market (2026): Market

In this blog, we profile the Top 10 Companies in the Lithium Niobate Industry —a mix of established crystal growers,

Global Thin Film Lithium Niobate Chip Market 2025 by Manufacturers ...

Chapter 2, to profile the top manufacturers of Thin Film Lithium Niobate Chip, with price, sales quantity, revenue, and global market

Advances in Electro-Optical Devices Enabled by Waveguide-Based

Lithium niobate (LN) materials have become a key platform for constructing core optoelectronic devices such as

Thin-Film Lithium Niobate Modulator Module with over 90 GHz Electro ...

We present a compact thin-film lithium niobate (TFLN) modulator module, which exhibits over 90 GHz electro-optic bandwidth, as

Leader of Thin-Film Lithium Niobate technology

Liobate Technologies" TFLN solutions enable high-speed, low-noise LiDAR and optical sensing systems for autonomous driving and

Ultra-compact lithium niobate photonic chip for high-capacity and ...

Recently, high-performance thin-film lithium niobate optical modulators have emerged that, together with advanced

Lithium niobate in vogue as thin-film developers raise cash

Zurich-based Lightium and Cambridge, Massachusetts, HyperLight – two startup firms that are both working on thin

Monolithic lithium niobate photonic chip for efficient terahertz-optic ...

Here the authors showcase a monolithic photonic chip for efficient THz-optical interaction, using thin-film lithium

Thin-film Lithium Niobate-ORI CHIP

To overcome these limitations, Ori-Chip has developed cutting-edge thin-film lithium niobate (TFLN) technologies 1-3. Ori-Chip TFLN

Fabrication and Characterization of Optical Devices on Lithium Niobate ...

We fabricated and characterized optical devices - waveguides, power splitters, and microring resonators on lithium

Thin Film Lithium Niobate Chip Market 2025

MARKET INSIGHTS The global Thin Film Lithium Niobate Chip Market was valued at 205 million in 2024 and is projected to reach

Top Thin-Film Lithium Niobate (TFLN) Modulator Companies in 2026 ...

Thin-film lithium niobate (TFLN) modulators are transformative components for next-generation optical networks,

High-Speed Electro-Optic Modulators Based on Thin-Film Lithium Niobate

Enter thin-film lithium niobate (LN), a recent standout with its inherent electro-optic (EO) efficiency, proven industrial performance,

China Ramps Up Photonic Chip Production With Eye on AI and

China launches its first production line for thin-film lithium niobate photonic chips, aiming to advance in AI and

High-bandwidth CMOS-level integrated thin-film lithium niobate electro ...

High-performance EOMs based on thin-film lithium niobate (TFLN) have been extensively studied and optimized for the

9 Lithium Niobate Wafer Manufacturers in 2026

9 Lithium Niobate Wafer Manufacturers in 2026 This section provides an overview for lithium niobate wafer as well as their

Lithium niobate photonics: Unlocking the

Lithium niobate photonics The optoelectronic and nonlinear optical properties of lithium niobate make it a

Thin-film lithium niobate chip; optical module | Weyland

Thin-Film Lithium Niobate (TFLN) chips are already one of the most crucial high-speed modulation technologies in

Lithium Niobate Electro-Optic Modulators

Exail, a recognized manufacturer, produces lithium niobate optical modulators for fiber optic systems in an

Global Thin Film Lithium Niobate Chip Market 2025 by Manufacturers ...

According to our (Global Info Research) latest study, the global Thin Film Lithium Niobate Chip market size was valued at US\$ 232

Beyond 1Tb/s

What is Thin Film Lithium Niobate (TFLN)? Learn about its multiple benefits and how it supports fiber optic data

Thin-film Lithium Niobate Modulators

Lithium niobate (LN), an outstanding and versatile material, has influenced our daily life for decades: from enabling

Contact Us

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