

Compatible high-temperature resistant tunable optical modules from Greek supplier



Overview

OEM Tunable Laser Module These modules carry our reputation as the leading supplier of OEM test-and-measurement tunable lasers. They have proven to be Fibe.

Key Takeaways

MEISU offers high-temperature resistant optical modules with tunable capabilities, compatible with SM and PM fibers, suitable for harsh environments and silicon photonics applications. Product Overview

MEISU provides optical modules and fiber arrays designed to withstand extreme temperatures, making them ideal for fiber sensing, laser transmission, and high-precision material processing. Key features include:

- High-temperature tolerance: Fiber arrays and collimators can operate up to 270°C for solder reflow assembly, with specialized collimators rated up to 700°C-1000°C for fiber sensing systems .
- Fiber compatibility: Modules are available with single-mode (SM) and polarization-maintaining (PM) fibers, with high-temperature coatings applied to standard PM fibers for enhanced thermal stability .



- **Tunability:** Tunable optical modules, including lasers and fiber-coupled sources, allow wavelength adjustment across a broad spectral range, supporting applications in telecom, spectroscopy, and optical component testing .
- **Integration with silicon photonics:** High-temperature fiber arrays are designed for SiPh solder reflowable assembly, ensuring reliable coupling between traditional SMF28 fibers and photonic chips .
- **Custom solutions:** MEISU offers linear fiber arrays, 2D collimator arrays, and multicore fiber modules, enabling scalable optical interconnects and free-space optical crossconnects (OXC) for complex photonic networks .

Applications

These modules are suitable for:

- **Harsh environment sensing:** High-temperature fiber sensing systems and industrial monitoring.
- **Silicon photonics assembly:** Reflow processes requiring thermal stability up to 270°C.
- **High-precision optics:** Laser spectroscopy, interferometry, and optical metrology.
- **Medical and imaging systems:** Multicore fibers for endoscopy and optical fiber imaging.

Additional Considerations

- **Connector and jumper options:** High-temperature connectors and jumpers ensure reliable optical connections in extreme conditions .
- **Radiation and thermal resistance:** For space or high-radiation applications, fibers with polyimide or silicone coatings provide additional durability .
- **Tunability control:** Tunable lasers can be adjusted via computer interfaces or electrical tuning, covering wavelengths from 780 nm to 3000 nm with pulse durations from picoseconds to milliseconds . For sourcing, MEISU can provide customized high-temperature optical modules tailored to specific fiber types, temperature ranges, and tunable wavelength requirements. Interested users can request a quote directly from MEISU or explore global photonics databases like MEETOPTICS to compare suppliers and specifications .

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