

Speed up development of compact, precision systems, eliminating laser noise and drift by locking your lasers to the stabilized reference cavity.

Based on our patented micro-resonator technology with proprietary packaging techniques, it provides an environmentally-insensitive reference with minimum stability of 10^{-13} at 1 s in a low SWaP form factor.



Based on a variety of crystalline and amorphous materials, whispering-gallery-mode(WGM) micro-resonators(WGMR) feature optical quality factors greater than 10^9 and are an excellent technology for laser stabilization and optical filtering applications. Just millimeters in diameter and compatible with a range of wavelengths from 370 nm to 4500 nm, the Stabilized Reference Cavity provides a tunable reference in a small (14.7 cm x 13 cm x 2.5 cm) and environmentally robust package. Its monolithic integration along with micro-scale mass and volume make the micro-resonator package virtually insensitive to environmental vibrations (less than 10^{-10} /g), and novel thermal packaging results in a reference for high long-term stability in variable external temperatures.

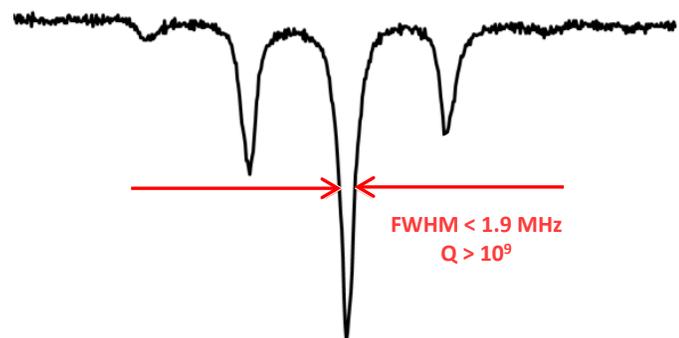
FEATURES

- Stability Better Than 10^{-13} at 1 s
- Fiber Input/Output
- Wide Tunability
- Wide Temperature of Operation
- Vibration/Acceleration Insensitive
- Size 14.7 cm x 13 cm x 2.5 cm
- UV-IR Capability
- High Contrast
- Less than 10^{-10} /g acceleration sensitivity
- Multi-wavelength Input Option

APPLICATIONS

- Laser Locking
- Quantum Technology
- Non-linear Optics
- Low noise μ wave - mmW generation
- Laser Noise Discrimination
- Optical Filters

HI-Q[®] WGM Optical Cavity Quality Factor Measured at 1550 nm



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