

超狭帯域レーザ発振波長安定化用FBG(半導体レーザ用) 周波数ロッカー

PowerSpectrum™-NLS

TeraXion

Ultra Narrow Band Stabilizer for Semiconductor Lasers



The PowerSpectrum™-NLS devices are perfectly suited for stabilizing the wavelength of semiconductor lasers for applications where frequency stability is a key requirement. Based on TeraXion's field proven athermal packaging technology, these devices provide outstanding center wavelength precision, a high degree of stability over time and the operation temperature range, and a high level of polarization extinction ratio (PER).

Features

- › Bandwidth: As low as 10 pm
- › < 50 pm center wavelength absolute accuracy
- › > 15 dB PER
- › < 50 pm aging drift after 15,000 hours of operation
- › < 70 pm thermal drift from -5 to 70°C

Benefits

- › Highly accurate, reliable, and stable
- › Compact form factor, easy to integrate in any semiconductor laser design

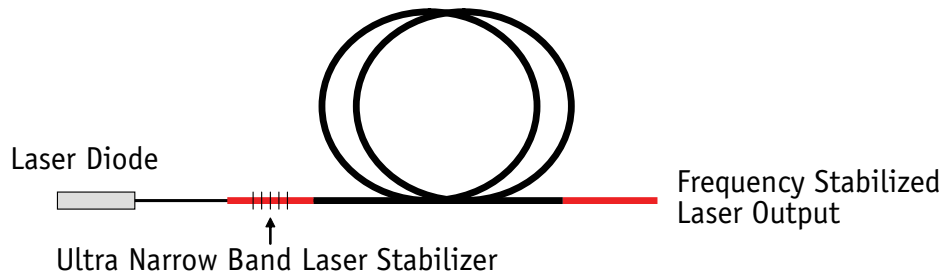


光技術をサポートする
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<http://www.optoscience.com>

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Applications



Specifications*

Parameter	Attribute	Value	Unit
Center wavelength	Range	850 - 1650	nm
	Absolute accuracy @ 20°C	±50	pm
	Maximum aging drift after 15,000 hours	±50	pm
	Maximum temperature drift (-5 to +70°C)	±70	pm
	Polarization extinction ratio (PM fiber)	>15	dB
Reflected bandwidth	Range	10-5000	pm
	Accuracy @ 20°C	± 20	% of nominal reflected bandwidth
Back reflection	Range	5-50	%
	Accuracy @ 20°C	± 1	%
Mechanical	Fiber type	SM or PM	
	Tube diameter	5.5	mm
	Tube length	55 or 75	mm
	Pigtail length	1	m

* Preliminary specifications subject to change.

Ordering information

For orders, questions, specific requirements, or to learn more about TeraXion products, contact us at info@teraxion.com

TeraXion

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