

Tunable Narrowband ASE Source, 1064nm, SPM 19" rack (2U size)

Model no.: TNBS-1064



Description

This Tunable Narrowband ASE Source is a unique type of optical source specifically designed to meet the stringent demands associated with electronic component and device testing. This low coherence source is the ideal laser replacement in applications where laser coherence effects limit testing resolution. The Tunable Narrowband ASE Source is based on proprietary all-fiber designs that ensure state-of-the-art performance and lead to much improved high resolution industrial imaging and semiconductor diagnostic probing.

Optical parameters (at 25°C)

Parameter	Specification	Unit
Output power ⁽¹⁾	> 5	mW
Output power stability ⁽²⁾	< ±0.1	dB
Center wavelength (tunable) ⁽³⁾	1064.0 – 1064.8	nm
Center wavelength stability ⁽⁴⁾	< ±0.05	nm
Spectral bandwidth (FWHM)	0.1 – 4	nm
Side-mode suppression ratio	> 30	dB
Optical extinction ratio (Amplitude Modulation – AM)	> 45	dB
Optical AM rise/fall times	< 20	ns
Output polarization	linear	-
Output polarization extinction ratio	> 20	dB

⁽¹⁾ Depending on user requirements and corresponding to a spectral density ~15mW/nm

⁽²⁾ At constant ambient temperature

⁽³⁾ Other wavelengths available

⁽⁴⁾ Under environmental temperature cycling from +20°C to +40°C

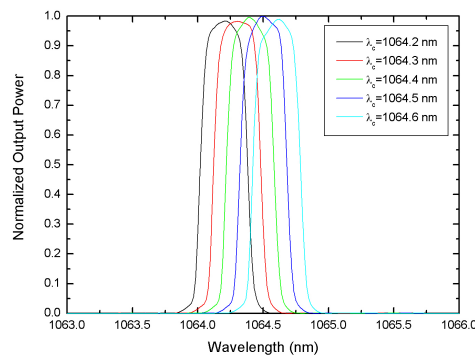
Optical connections

Fiber type	Panda 980 or equivalent
Connector type	FC/APC, key width 2.02 mm, key aligned with slow axis

Electrical parameters (at 25°C)

Parameter	Specification	Unit
Power supply	100-240VAC, 1.2A, 50/60Hz	-

Typical optical emission spectrum



Options: The Tunable Narrowband Source can be combined and integrated Broadband ASE source (50 nm spectral bandwidth, PM version) with the same output optical power, with an user's external TTL signal selection input which switches between both optical sources. An analog amplitude modulator (AM) can also be included (analog 0-1VDC).