C- Band ASE Source

PRODUCT DATA SHEET

NP Photonics’ C-Band ASE Source is a high performance, high power, low cost and reliable incoherent light Source for sensing and testing.

NP Photonics’ C-Band ASE Source is a low cost, high performance ASE. This high power Source produces a broadband output spectrum of Amplified Spontaneous Emission (ASE) ranging from 1525 to 1565 nm. The ASE technology, developed at NP Photonics, offers high levels of power, spectral, and temperature stability for the most demanding ASE applications.

The C-Band ASE Source is a member of our ASE product family which covers a variety of wavelength ranges, spectral shapes, and output powers. All are available in convenient form factors including: OEM Module and Benchtop.

FEATURES

- Full C&L Band operation
- 13, 17, & 19 dBm
- Wide bandwidth
- Turn-key system
- CDRH compliant
- Integrated pump laser
- Microprocessor control
- Customizable

APPLICATIONS

- Sensing
- Passive components testing
- Bio-medical imaging Source
- Spectroscopy
PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>Wavelength Range</td>
<td>1525-1565 nm</td>
</tr>
<tr>
<td>Output Power</td>
<td>7, 10, 13, 17 or 19 dBm</td>
</tr>
<tr>
<td>Spectral Power Variation (dB)</td>
<td>&lt;± 5</td>
</tr>
<tr>
<td>Output Power Stability (dB) (1hr) at fixed 9 C</td>
<td>&lt;0.04dB</td>
</tr>
<tr>
<td>Output Power Stability (dB) over 0-50 C</td>
<td>± 0.2</td>
</tr>
<tr>
<td>Output Polarization (Degree of Polarization)</td>
<td>&lt; 5%</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>&lt;8.25 W, &lt; 3W Typical</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>+3.3V ±5%</td>
</tr>
<tr>
<td>Supply Voltage Noise Level</td>
<td>&lt;50mW pk-pk</td>
</tr>
<tr>
<td>Supply Current</td>
<td>2.5A Max; 1A Typical (1)</td>
</tr>
<tr>
<td>Power Supply Capacitive Load</td>
<td>250μF Decoupling Inside Unit</td>
</tr>
<tr>
<td>Optical Bandwidth @ 10 dB point</td>
<td>&gt; 40 nm</td>
</tr>
<tr>
<td>Package Dimension</td>
<td>127 x 106.6 x 56.1 mm</td>
</tr>
</tbody>
</table>

Power Code

- 7 dBm 7
- 10 dBm 10
- 13 dBm 13
- 17 dBm 17
- 19 dBm 19

Spectral Code

- Flattened F
- Unflattened U

NP Photonics C Band ASE Sources are protected by a 12-month warranty. All components and assemblies are unconditionally warranted to be free of defects in workmanship and materials for the warranty period, beginning from the date of shipment. This warranty is in lieu of all other warranties, expressed or implied, and does not cover incidental or consequential loss. This warranty does not apply to devices damaged due to operating conditions outside of the specified parameters. Modified warranties for OEM customers are available.

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Specifications subject to change without notice 01-11 Rev.3