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639nm, 200mW, Single Frequency Turnkey Laser

Single Frequency Turnkey Lasers (Power Supply Included)

Stock **#23-746** **1 In Stock**

- 1 + **£10,112**.00

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Qty 1+	**£10,112.00** each
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Product Downloads

General

Warm-Up Time (minutes):
<5

Type of Laser:
Solid State

Laser Class - CDRH:
Class IIIb

Physical & Mechanical Properties

Pointing Stability after Warm Up (mrad/°C):

<0.05

Optical Properties

Polarization:
100:1 (minimum)

Spatial Mode:
TEM_{00}

Wavelength (nm):
639.00 ±1

Mode Quality, M^2:
<1.2

Beam Diameter (mm):
<1

Beam Divergence (mrad):
<1.5

Color:
Red

Spectral Line Width (pm):
0.01

Electrical

Output Power (mW):
200

Power Stability (%):
<2

Peak-to-Peak Noise:
<0.5%

Hardware & Interface Connectivity

Output Type:
Free Space

Environmental & Durability Factors

Operating Temperature (°C):
+10 to +40

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 233:
Compliant

Product Details

- Single Frequency and Single Transverse Mode Operation
- Narrow Spectral Linewidth <0.00001nm
- 532, 639, and 1064nm Wavelengths
- **Low Cost Turnkey Lasers** from 405 - 1064nm Also Available

Single Frequency Turnkey Lasers are continuous wave diode-pumped solid state (DPSS) lasers designed for single frequency and single transverse mode operation. These lasers operate at a fixed wavelength of 532, 639, or 1064nm and have both a narrow spectral linewidth of <0.00001nm and long coherence length of >50m. These features, combined with a high output power of 200mW, make these lasers ideal for applications such as confocal microscopy where high brightness and precise wavelengths are required, or interferometry where long coherence lengths are required for better detail resolution. Single Frequency Turnkey Lasers have a compact design, allowing for easy integration into flow cytometry, Raman spectroscopy, holography, fluorescence microscopy, and R&D lab setups.

Note: Power supply included.

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