

AB Photonics

Pulsera, a new series of compact picosecond mode-locked DPSS lasers



Key Features

- Turnkey
- Watt-class optical power
- Plug-and-play system
- Short lead times
- IR and visible wavelengths available
- Designed and manufactured in Connecticut

Applications

- Raman Spectroscopy
- Laser-Induced Fluorescence
- Time-Resolved Spectroscopy
- Material Processing
- R&D

Preliminary Technical Specifications

Model **Pulsera-532-LP^c**

Average Power ^a	50 - 400 mW
Emission Wavelength	532 nm
Emission Bandwidth (FWHM)	< 0.05 nm
Repetition Rate	79 MHz
Pulse Width (FWHM)	~10 ps
Output Power Stability ^b	< 1% rms (10 hrs)
Beam Quality, M ²	TEM00, M ² < 1.1
Beam Diameter, D4 σ	2.0mm
Beam Ellipticity	< 5%
Polarization	> 100 : 1 Vertical
Operating Temp. Range	15° - 30° C
Cooling	Air-cooled
Utility Requirement	100-260VAC, 50/60Hz
AC Power Consumption	< 75W
Dimensions (L x W x H)	265 x 190 x 95 mm
Weight	3.8 kg (8.4 lbs)

^a Factory set

^b At constant lab temperature

^c Pulsera-532-HP is a higher power model producing power between 500-1000 mW

