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Coherent® EnergyMax 1191437 | Nd:YAG Sensor, 2.4mJ-3J, USB

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Coherent® EnergyMax Laser Energy Sensors

Stock **#88-421** **1 In Stock**

⊖ 1 ⊕ C\$4,480⁰⁰

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General

Model Number:
J-50MB-YAG
Coherent Part Number: 1191437

Type:
Meterless

Linearity (%):
±3

Calibration Uncertainty (%):
±2

Noise Equivalent Energy (μJ):

<240

Maximum Incident Energy Density:

14J/cm² (10ns, 1064nm)
2.8J/cm² (10ns, 532nm)
0.75J/cm² (10ns, 355nm)
1.0J/cm² (10ns, 266nm)

Energy Range:

2.4mJ - 3J

Physical & Mechanical Properties

Active Area Diameter (mm):

35

Optical Properties

Calibration Wavelength (nm):

1064

Maximum Pulse Width (μs):

340

Wavelength Range (nm):

266 - 2100

Sensor

Type of Sensor:

Pyroelectric

Electrical

Maximum Repetition Rate (pps):

50

Maximum Incident Beam Power (W):

20

Hardware & Interface Connectivity

Connector:

USB

Length of Cable (m):

3.0

Regulatory Compliance

RoHS 2015:

[Exempt](#)

Reach 224:

[Contains SVHC\(s\)](#)

Certificate of Conformance:

[View](#)

Product Details

- ISO 17025 Certified
- Embedded Spectral Compensation Characteristics
- Automatic Temperature Compensation

Coherent® EnergyMax Laser Energy Sensors are designed for a variety of demanding laser measurement applications. These energy sensors, available in meter or meterless USB configurations, incorporate a diffuse coating to minimize specular reflection and feature large active areas. The J-50MB-YAG combines the MaxBlack coating with a diffuser for use with high energy lasers of up to 3J. Coherent® EnergyMax Laser Energy Sensors utilize onboard sensors to automate temperature compensation for improved measurement accuracy.