

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

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Coherent® EnergyMax Laser Energy Sensors

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1

+

A\$5,120^{.00}

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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/cm ² (10ns, 1064nm)	
2.8J/cm ² (10ns, 532nm)	
0.75J/cm ² (10ns, 355nm)	
1.0J/cm ² (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.