

# NanoPoint® Series

## Miniature OEM IR Laser Module

**MEYERS**  
OPTOELECTRONIC SYSTEMS

The NanoPoint® is a miniaturized laser module designed for incorporation into existing products or new systems under development. It provides a simple and cost-effective way to integrate an IR laser pointer into an end-use product, enhancing the overall capabilities of the system. The NanoPoint comes in three models depending on desired power output: NanoPoint 50, 100, and 150.

Model #852-UAV-NP150 \* // 150 mW

Model #852-UAV-NP100 // 90 mW

Model #852-UAV-NP50 // 50 mW

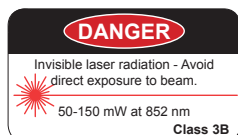


Nominal Characteristics	
Model Number	852-UAV-NP50 / NP100 / NP150
Output Power	50 - 90 - 150 mW Typical
Wavelength	852 nm @ 25 °C
Beam Divergence [V x H]	0.3 x 0.6 mrad [0.018 x 0.036 deg]
Control Interface	24-gauge wires, 12 in (3 each)
Fire Command [CW]	Ground-specified wire
Fire Command [Pulse]	Modulate fire command to 2kHz
Power Requirements	+4.0 to +5.5V dc at <300 mA
Housing	6061-T6 aluminum, Alodine® coating [Class 1 chemical conversion coated]
Dimensions [L x D]	1.500-in long x 0.500-in diameter
Mounting Surface	0.5-in diameter cylinder
Weight	0.55 oz [15g]
Operational Temperature	-40 to +71 °C
Maximum Altitude	12,000 ft operation 50,000 ft storage
Export	Not USML Controlled
*150 mW laser maybe commerce controlled	

Data subject to change.

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Proudly made in the USA 



## Applications

- Marking points of in infrared.
- Long-range pointing at night.
- Law Enforcement / Border Security / Defense / Industrial

## Features

- Compact size, lightweight and low power consumption.
- Output power 150 mW at 852 nm.
- Constant optical power; independent of ambient temperature or supply voltage variations.
- CW or pulsed (via modulation).
- Wide operating temperature range (-40 to +85 °C).
- Designed and tested for high shock and vibration environments.
- Environmentally sealed housing IP67.

## Benefits

- Enhances products with long-range pointing and illumination capabilities.
- Easily integrated into space-constrained designs.
- Increases effectiveness with rapid point of interest identification.
- Commercially available OEM laser module.