

# Line Laser Diode – 5mW 650nm Red

PRODUCT ID: 1057



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## DESCRIPTION

You have some frickin' sharks at your lair, and you're thinking "it would be really great if I could attach some lasers to them" and then you see these little laser diode modules: what great timing! These encapsulated laser diodes are Class IIIa 5mW, with a 650nm red wavelength. They can be driven from 2.8V to 5.2V so they're great for your embedded electronics project.

This particular laser diode has a lens attached to turn the dot into a line. We think this would be particularly good for making a 3D scanner, but there are probably many other cool uses! Simply connect power to the red and black wires and you will be lasing in no time.

The line beam spread is 120° – so from a distance of 5cm the line is 15cm long. The line fades out and doesn't have a sharp cut-off.

Please note: this is not a laser pointer. It's a diode with integrated driver. You still need a 3 to 5VDC power supply. These diodes are 5mW output, and have a safety label marked on them. For more information on laser safety and ratings check out the Wikipedia page

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# Technical Details



Weight: 11.85g

Diameter: 10.11mm

Length: 32.82mm

Wire length: 100mm

650nm wavelength

2.8 – 5.2V DC voltage input

25mA max current draw

Operating temperature  $-10^{\circ}\text{C}$  to  $40^{\circ}\text{C}$ ;