



Ushio introduces new single-mode 670 nm red laser diodes

[Ushio, Inc.](#) has begun the mass production of HL67191MG and HL67192MG, offering two new [red laser diodes \(LDs\)](#) for operation at the 670 nm wavelength. Providing an optical output power of 15 mW (CW) and 30 mW (pulsed), these single-mode LDs deliver high-temperature performance (up to 70°C) within a compact ϕ 5.6 mm can package. Both LDs achieve a low operating current of 30 mA at 25°C (15 mW in CW operation) and feature built-in monitoring photodiodes.

Despite maintaining Ushio's trademark high-quality, these new red laser diodes offer a number of improvements over some existing models. In keeping with Ushio's habit of providing customisation options, engineers gain more freedom to fit the LDs into their preferred electrical circuit structure, with the added possibility to feature an extra pin-out for the new models.

Ushio's previously existing 670 nm laser diodes (HL6714G; HL6748MG; HL6756MG) laser diode are able to withstand ambient temperatures of up to 60°C. Now, with the release of the two new models, an additional 10°C margin brings a new level of durability to Ushio's laser line-up. Not only does this allow the lasers to remain fully operational in hotter environments, but they remain unaffected in situations which would previously contribute to the premature failure of the LDs. This feature increases the suitability of these lasers to be implemented into devices which do not feature an active cooling element.

These qualities combine to result in a pair of high-reliability, cost-efficient emitters which are ideal for battery-powered sensing and precise measurement equipment.

HL67191MG and HL67192MG red laser diode specifications

- Optical output power: 15 mW (CW), 30 mW (pulse)
- Visible lasing: 670 nm
- Operating temperature: 70°C max.
- Single transverse mode
- TE mode oscillation
- Small package: ϕ 5.6 mm can



Press Release

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Applications

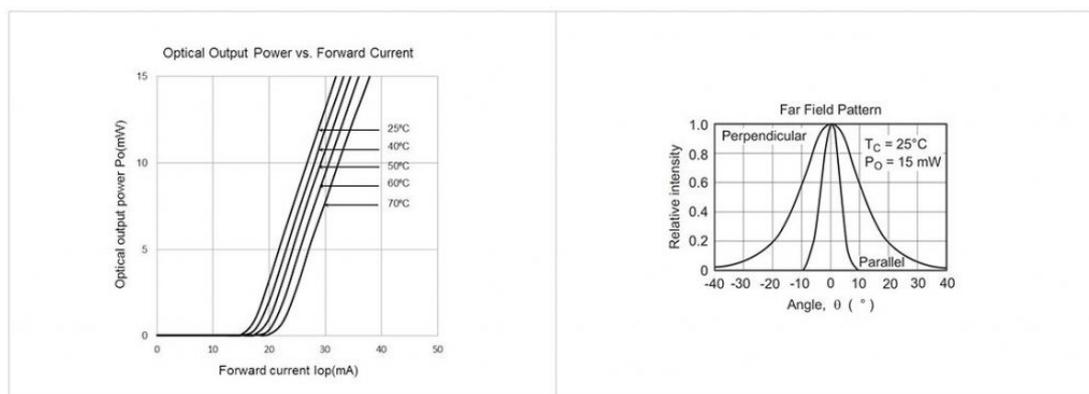
- Barcode reading
- Measurement
- Sensing

Packaging

- Ushio standard MG (TO-56) package; two internal circuits available

Product image	HL67191MG	HL67192MG

Typical characteristic curve



Ushio Europe is available to discuss your SSL needs

Clients located in the EMEA region can receive more information about HL67191MG or

HL67192MG by contacting Ushio Europe Sales Director Ardan Fuessmann at

Ardan.Fuessmann@ushio.de, or by filling in the form on the Ushio Europe [contact page](#).

[HL67191MG datasheet](#)

[Ushio Europe Laser Diodes](#)

[HL67192MG datasheet](#)

[Ushio Europe LEDs](#)



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About Ushio Europe B.V.

Ushio Europe does not simply sell lighting products, but instead seeks to understand your specific needs and present you with [unique solutions](#). Ushio has amassed a wealth of in-house specialist knowledge and localised expertise, with dedicated facilities designed and implemented for the testing of ultraviolet, visible, and infrared light solutions. From the early stages of research and development to the final implementation, Ushio Europe commits to the technical development of your process solution until you are 100% satisfied with the outcome. The Ushio aftercare team is legendary thanks to its understanding that needs change along with the processes that solve them. With that in mind, Ushio's experts are always available for your questions and any additional modifications that come up further down the line. From advising how to expand your operations with the [latest LED technology](#) to disclosing relevant lessons from the development of our record-breaking [laser diodes](#), Ushio uniquely tailors each individual project to the client. This is how the company provides results that reach so far beyond your expectations. Ushio does not merely wish to meet your requirements; it vows to surpass them entirely.

Original release: <https://www.ushio.eu/670nm-red-laser-diodes/>