

1. Product Overview.

The Interchangeable line lens consists of a Diffractive optical element (DOE) lens fitted with in an 11mm diameter lens holder with an M9 thread section for mounting. The lens produces a 4 x 4 grid pattern with typical full fan angle of 4.57 degree. the distance between the lines of the grid (interbeam angle) is 1.18 degrees. Diffractive optical elements (DOE) split a single gaussian input beam into projections consisting of many gaussian beams. Due to the large number of beams in the patterns the intensity is often uniform in the length at shorter working distances, however due to the effects of divergence the uniformity levels will decrease over longer working distance. The intensity distribution in the width is gaussian. An M9 threaded section allows the lens assembly to simply screw into any laser module with a M9 thread for lens assembly and a suitable focal length collimator.

The lens assembly will fit into both the VM range and the Gated Cameo “A” lens model listed below and turn the output beam into the listed pattern.

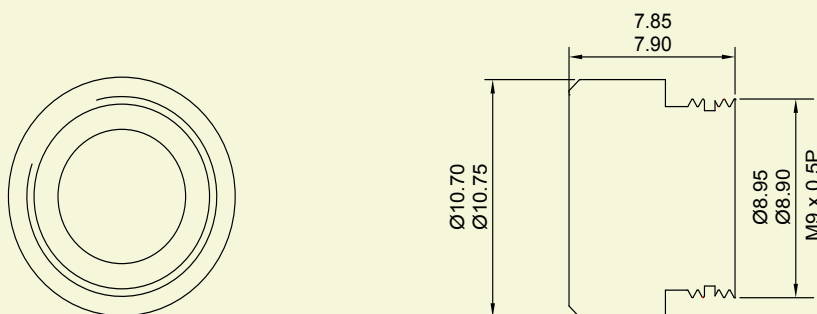
ImatroniC Part Number	Description
5002-45-000	Versatile Module 635nm 1mW TTL
5002-46-000	Versatile Module 635nm 3mW TTL
5002-47-000	Versatile Module 650nm 1mW TTL
5002-48-000	Versatile Module 650nm 3mW TTL
1266-01-000	Gated Cameo 635nm 0.8mW A Lens
1266-02-000	Gated Cameo 635nm 3mW A Lens
1266-03-000	Gated Cameo 650nm 0.8mW A Lens
1266-04-000	Gated Cameo 650nm 3mW A Lens

2. Specification.

Lens Material	Acrylic
Lens Type	DOE
Exit Aperture	5mm
A/R Coated	No
Typical Input Beam Size	5 by 1.5mm
Typical Fan Angle (650nm)	4.57°
Typical Interbeam Angle (650nm)	1.18°
Typical Transmission Loss (650nm)	≤25%

3. Diagram.

Interchangeable Grid Lens (4.57° Fan Angle)



Please note: Imatronic reserve the right to change descriptions and specifications without notice.



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