

# Melles Griot Ltd introduces new Laser Diode Modules

- ▶ **High quality, lightweight & robust design**
- ▶ **Visible & Infra-red models**
- ▶ **Variety of wavelength & output power options**
- ▶ **Line generating screw-on output converters**



*Now available in the UK and Ireland, Melles Griot Ltd introduces a new range of laser diode modules designed to offer reliability at an affordable price.*

*The standard product is supplied with a moulded aspheric lens producing a high quality beam.*

*Options include high working temperature models (to 60°C) and flange mounted variants for ease of installation.*

## **Typical Applications include:**

- Positioning
- Alignment
- Measurement
- Bar Code Reading
- Security
- Edge detection
- Target location
- Fibre optic testing

## **Featuring:**

- Reverse polarity protection
- Low voltage operation
- On board regulation
- Output power stabilisation
- Adjustable optics
- Wavelength/power options

**We can fulfil your laser diode needs — from development through to production.**

### **MELLES GRIOT LTD**

2 Pembroke Avenue • Waterbeach, Cambridge, CB5 9QR  
(01223) 203300 • FAX (01223) 203320  
E-mail: [astephens@mellesgriot.com](mailto:astephens@mellesgriot.com)

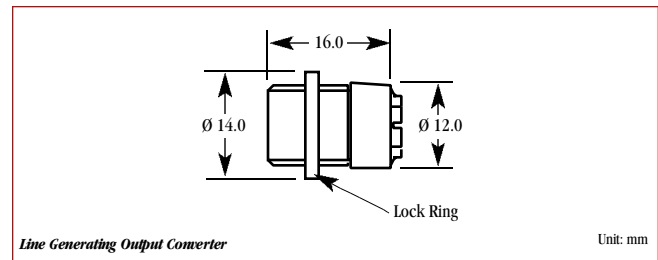
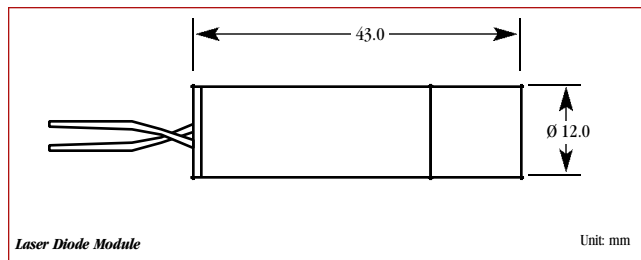
# MELLES GRIOT

[www.mellesgriot.com](http://www.mellesgriot.com)

## Technical Specification

	635 nm					645 nm		670 nm			780 nm	
Beam output	Elliptical											
Output power	0.9	3	6	12	18	0.9	3	0.9	3	6	3	12
Power stability (%)	<5											
Wavelength (nm, @ 25°C)	635±5		635±10			645±15		670±10		675±10	780±20	785±15
Beam size (mm)	4 x 2											
Minimum spot size (µm)	100											
Beam divergence (mrad)	0.5											
Pointing stability (mrad/°C)	<0.2											
Bore sighting (°)	<2											
Operating voltage (VDC)	3.0 - 6.0											
Operating current (mA)	35	65	65	90	100	55	60	50	55	70	60	70
Operating temperature (°C)	-10 - +40						-10 - +50					
Storage temperature (°C)	-40 - +80											
Material	HE30 Aluminium											
Flying lead length	300 mm											
Finish	Anodised											

Typical values quoted unless otherwise stated



### Ordering Information

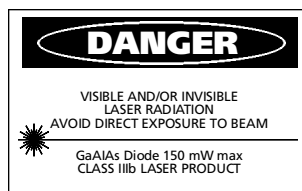
	Output	Product number
635 nm laser diode module	0.9 mW	58 SDM 101
	3 mW	58 SDM 103
	6 mW	58 SDM 106
	12 mW	58 SDM 112
	18 mW	58 SDM 118
645 nm laser diode module	0.9 mW	58 SDM 201
	3 mW	58 SDM 203
670 nm laser diode module	0.9 mW	58 SDM 301
	3 mW	58 SDM 303
	6 mW	58 SDM 306
780 nm laser diode module	3 mW	58 SDM 403
	12 mW	58 SDM 412

### Features of line generator:

- Simple to mount & adjust
- Range of fan angles
- Compact & lightweight

### Ordering Information

	Typical line thickness at 1m	Typical line length at 1m	Product number
Line generating output converter, 3° fan angle	2 mm	50 mm	58 DOC 003
Line generating output converter, 12° fan angle	1 mm	250 mm	58 DOC 012
Line generating output converter, 22° fan angle	1 mm	400 mm	58 DOC 022



### Safety

Diode laser assemblies may emit visible or invisible light which can cause severe damage to the human eye. DO NOT look directly into any laser beam or at any specular reflections from the laser.