Imatronic Sigma

Features

Entry point low cost diode module

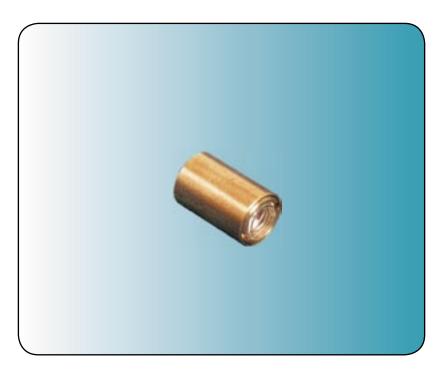
User Focusable

Ideal for experimental & educational use.

Simple CW brass body construction.

Compact design for restricted installations

Potted for better heat dissipation



The Sigma laser diode module is a complete laser solution in a compact package.

All the essential components are included, and the result is a low cost, easy to use device suitable for prototyping, feasibility studies, educational and experimental use.

The output beam is user focussable, and will produce small spots of very high brightness.

The metal body is in intimate contact with the heat producing components and the thermal potting ensures coolest operation.

Applications

Alignment and Positioning

Bar Code Readers

Dimensional Scanning

Metrology

Event Detection

Robot Control

Target Designation

Edge Detection

Analysis

Security

Optical Fibre Testing

Entertainment (Laser TAG)



	SIGMA/635/1	SIGMA/650/3
	635/1	650/3
	OPTICAL	
Output Power (mW +/- 10%)	0.9	3
Laser Classification	2	3R
Power Stability (%)	< 3	< 3
Wavelength (nm)	635 +/- 5	650 +/- 5
Wavelength vs Temp (nm/oC)	0.2	
Focus Range (mm)	100 to infinity	
Beam Size at Aperture (mm)	4 x 2 typical	
Beam Size at Nearest Focus (µm)	< 100	
Beam Divergence (mrad)	< 0.5	
Astigmatism (µm)	< 10	
Beam Position (mrad)	< 25	
Pointing Stability (mrad)	< 2	
ELE	ECTRICAL / MECHANICAL	
Supply Voltage – Red Lead (V)	+3.5 Vdc to +5.0 Vdc	
Supply Voltage – Black Lead (V)	0	
Operating Current (mA)	45	
Length (mm)	16.5	
Diameter (mm)	10.4	
Mass (g)	10	
Supply Lead Length (mm)	65	65
	ENVIRONMENTAL	
Operating Temperature (°C)	-10 to +40	
Storage Temperature (°C)	-40 to +85	
Operating Humidity (%rh)	90	
MTTF at 25 °C (x 1,000)	> 15	

LASER SAFETY

Our lasers are compliant to IEC 60825-1 standards. The lasers fall within one of the following classifications depending on power and wavelength. The examples of the labels supplied with the units are shown below.



OEM Laser Label



Class 2 Laser Label



QUALITY & WARRANTY

The Imatronic range is supplied with a 12 month parts and labour warranty. And our manufacturing operations are certified to ISO9001.



Please note: Global Laser reserve the right to change descriptions and specifications without notice



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Your Local Distributor Is:

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