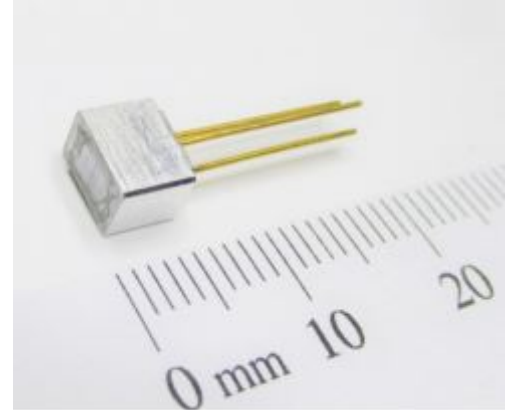


## Laser Line Generator Module PCW-TO-020-W0830-D80

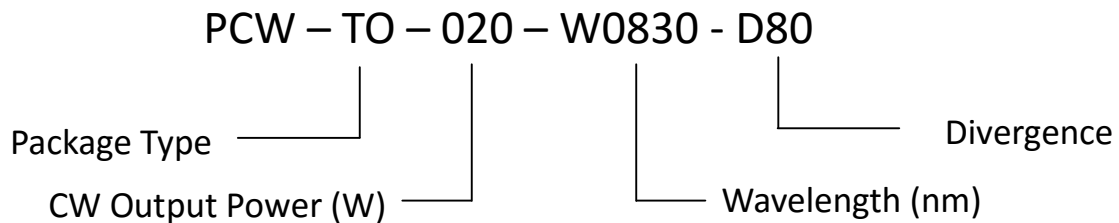
- Vertical-Cavity Surface-Emitting Laser technology
- Large fan angle, and custom fan angles are available
- Good line uniformity with narrow line width
- 820 - 840nm wavelength, CW operation, and custom wavelengths are available (780 - 1100 nm)
- Applications: machine vision, laser line scanner, 3D modeling, etc.
- Other wavelengths, higher powers available as custom designs



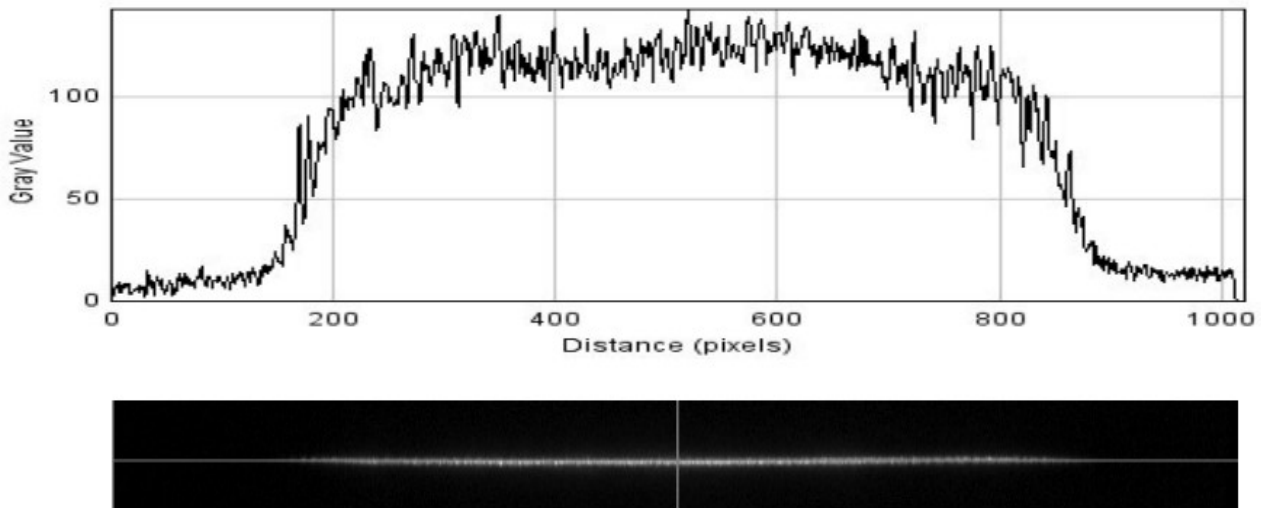
### Optical & Electrical Characteristics

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
Fan angle	At Given Line Uniformity	--	80	--	°
Line width	FW 1/e <sup>2</sup> pt. at 50cm dist.	--	2.5	3	mm
Line uniformity	--	--	75	85	%
CW Output power	(Higher powers available)	--	20	30	m
Operating current	20 °C	--	23	33	mA
Operating voltage	20 °C	--	21	2.4	V
Center wavelength range	20mW, 20 °C	820	--	840	nm
Operating temperature	Without Cooling	--	--	50	°C
Dimension, L x W x H	--	--	--	4x6x5	mm <sup>3</sup>

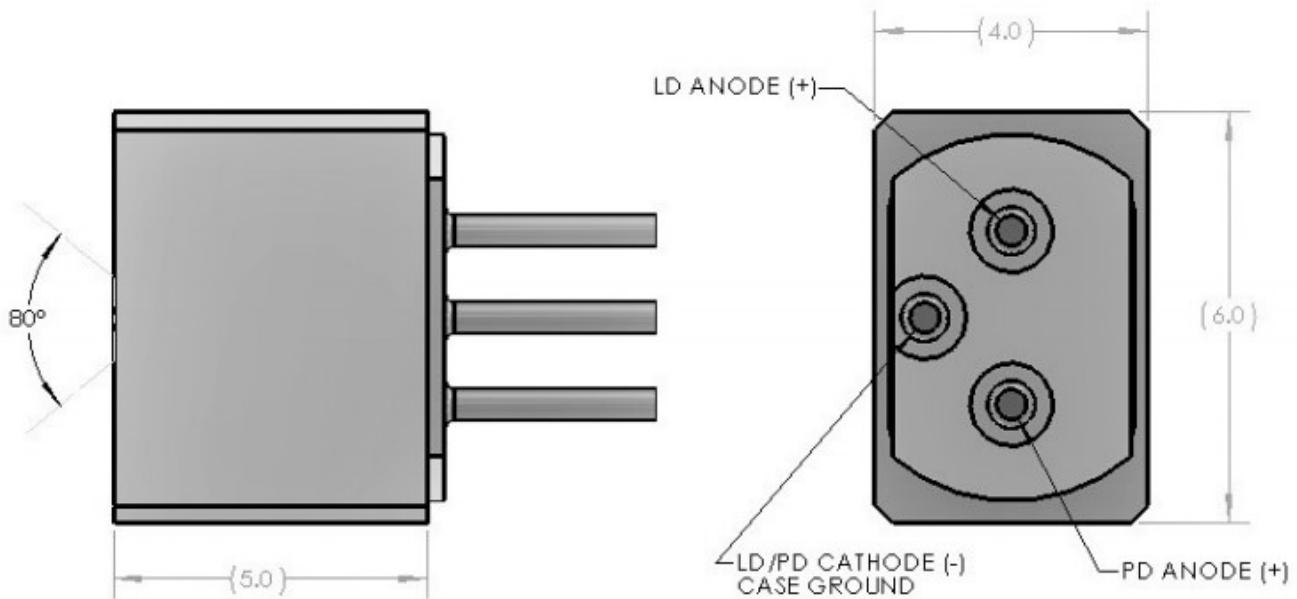
### Ordering information



## Line Image & Uniformity Example



## Module Dimensions (mm)



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Laser diode product components are intended for use in a user-devised end system. However, these products are capable of emitting Class IV radiation. Extreme care must be exercised during their operation. Only persons familiar with the appropriate safety precautions should operate a laser product. Directly viewing the laser beam or exposure to specular reflections must be avoided. Serious injury may result if any part of the body is exposed to the beam. The eye is extremely sensitive to the infrared radiation and therefore, proper eye-wear must be worn at all times. Use of optical instruments with these products may increase eye hazard. Always wear eye protection when operating.



REV.B – 8/16