PRINCETON OPTRONICS

Single Mode Blue VCSEL (30mW)
Part # HPSM-30-W0485
(Preliminary Data Sheet)

- *Vertical-Cavity Surface-Emitting Laser technology*
- *Single transverse mode operation (TEM_{00})*
- *Single longitudinal mode*
- *Wavelength stabilized, narrow linewidth*
- *CW and pulse operation*
- *Fiber-coupled option*

Optical & Electrical Characteristics

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
CW Output Power	220mA, 25C Heat-sink	30	40	--	mW
Operating current	30mW, 25C Heat-sink	--	220	250	mA
Operating voltage	30mW, 25C Heat-sink	--	2.2	2.7	V
Differential resistance	25C Heat-sink	--	4	8	Ω
Center wavelength	30mW, 25C Heat-sink	480	485	490	nm
Spectral width (FWHM)	30mW, 25C Heat-sink	--	0.01	0.05	nm
M^2	30mW, 25C Heat-sink	--	1	1.1	--

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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 IIIB 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.

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