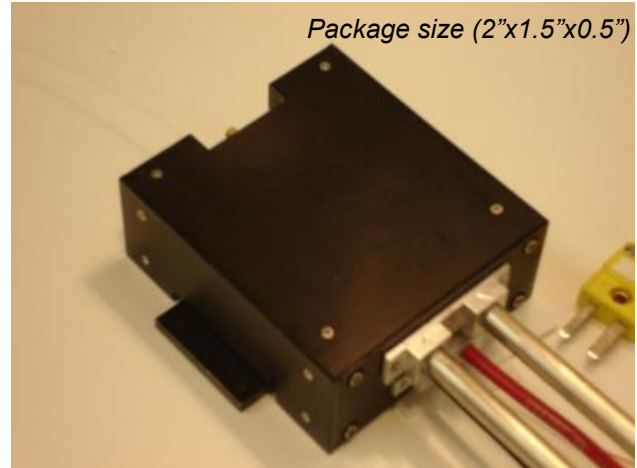




High Brightness Fiber Coupled VCSEL Array (50W) Part # HBFC-W0975-50

- Vertical-Cavity Surface-Emitting Laser technology
- Power output of 50W from 400u 0.46NA fiber (200W watts version to be released in 2008)
- Bottom-side emission
- Consists of several hundred single mode VCSEL devices
- CW, pulse and QCW operation
- Custom wavelengths available (808-1064nm)



Optical & Electrical Characteristics

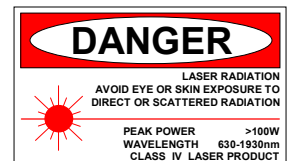
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
CW Output Power	150A, 25C Heat-sink	50	60	--	W
Threshold current	25C Heat-sink	--	10	15	A
Operating current	50W, 25C Heat-sink	--	135	150	A
Operating voltage	50W, 25C Heat-sink	--	2.1	2.5	V
Differential resistance	50W, 25C Heat-sink	--	5.8	7.0	mΩ
Center wavelength	50W, 25C Heat-sink	965	975	985	nm
Spectral width (FWHM)	50W, 25C Heat-sink	--	0.8	1	nm
Wavelength shift	25C Heat-sink	0.060	0.065	0.070	nm/°C

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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.



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