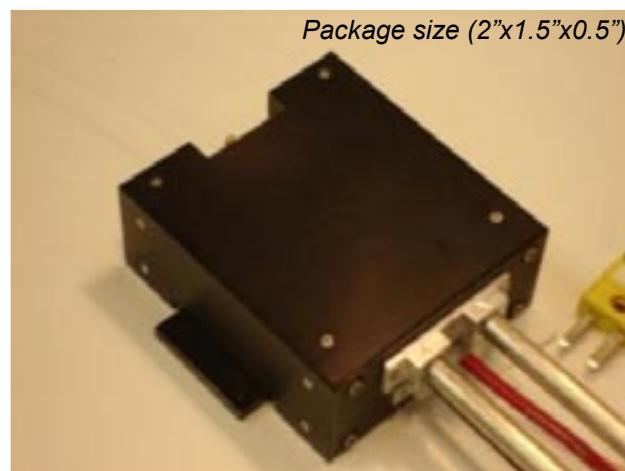




Fiber Coupled VCSEL Array Module (1 kW) Part # PCW-M10-1000-W0975 (Preliminary)

- Vertical-Cavity Surface-Emitting Laser technology
- Power output of 1kW from 1mm/0.4NA fiber
- CW, pulse and QCW operation
- Custom wavelengths available (808-1064nm)



Optical & Electrical Characteristics

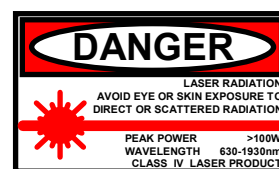
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
CW Output Power	150A, 25C Heat-sink	1000	1200	--	W
Threshold current	25C Heat-sink	--	10	15	A
Operating current	1kW, 25C Heat-sink	--	135	150	A
Operating voltage	1kW, 25C Heat-sink	--	24	28	V
Differential resistance	1kW, 25C Heat-sink	--	5.8	7.0	mΩ
Center wavelength	1kW, 25C Heat-sink	965	975	985	nm
Spectral width (FWHM)	1kW, 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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株式会社 エム スクエア <http://www.mxmco.com> info@mxmco.com
〒101-0051 東京都千代田区神田神保町 1-34-2F TEL (03)3294-0560 FAX (03)3294-0563
〒815-0041 福岡市南区野間 1-10-18 TEL (092)554-6800 FAX (092)554-6802