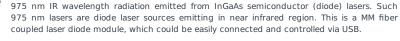


PART NUMBER 0975L-14A ITEM NAME 975 NM LASER (DIODE; MM FIBER)

# PRODUCT DATASHEET

#### DESCRIPTION



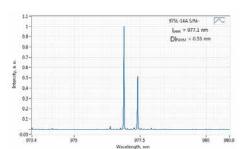
TYPICAL SPECTRUM



### SPECIFICATIONS

### Last edited on: 24 January 2019

#### Parameter Minimum Typical Value Maximum Value Value Central Wavelength, nm 967 972 977 Longitudinal modes \_ multiple \_ Spectral line width FWHM, nm 0.5 -1 120 <sup>1</sup> Output power, mW --Power stability, % (RMS, 8 hrs) 1 2 2 Power stability, % (peak-to-peak, 8 2 3 3 hrs) Noise, % (RMS, 20 Hz to 20 MHz) 0.25 4 0.6 -Control interface type UART/USB \_ Operation mode -APC (CW) -Modulation bandwidth, MHz optional <sup>5</sup> --Input voltage, VDC 4.8 5 5.3 External power supply requirement +5 V DC, 1.5 А Dimensions, mm 50 x 30 x 18<sup>6</sup> --Fiber Length, m 0.95 1 1.1 Heat-sinking requirement, °C/W -1 \_ Optimum heatsink temperature, °C 15 20 30 Warm up time, mins (cold start) 0.1 0.5 1 Temperature stabilization Yes Overheat protection Yes Storage temperature, °C (non--10 50 condensing) Net weight, kg 0.1 0.12 0.14 2 10 Max. power consumption, W 0.4 14 (10000) 7 Warranty, months (op. hrs)





## **RPMC Lasers, Inc.** 8495 Veterans Memorial Pkwy • O'Fallon, MO 63366



Laser Safety Class	-	3B	-
RoHS	-	Yes	-
Transversal modes	-	Multiple	-
CE compliance	-	- General Product Safety Directive (GPSD) 2001/95/EC - (EMC) Directive 2004/108/EC	-
OEM lasers are not compliant with	-	IEC60825- 1:2014 (compliant using additional accessories)	-
Country of origin	-	Lithuania	-

 $^1$  The optical power can be tuned from virtually 0% to 100%. However, other specifications, such as central wavelength, power stability, noise, polarization ratio, beam shape, quality and circularity are not guaranteed at power levels other than factory preset power. Significantly worse power stability is to be expected at very low power levels, e.g. <3% from specified nominal power.

 $^2$  Long term power test is carried out using an optical power meter with an input bandwidth of 10 Hz. Actual measurement rate has a period of about 20 seconds to 1 minute.

<sup>3</sup> Long term power test is carried out using an optical power meter with an input bandwidth of 10 Hz. Actual measurement rate has a period of about 20 seconds to 1 minute.

<sup>4</sup> Noise level is measured with a fast photodiode connected to an oscilloscope. The overall system

bandwidth is from 2 kHz to 20 MHz.

<sup>5</sup> TTL digital modulation up to 10 MHz.

<sup>6</sup> Excluding control interface pins and an output window/fiber assembly.

<sup>7</sup> Whichever occurs first. The laser has an integrated operational hours counter.

Note: Product specifications are subject to change without prior notice to improve reliability, function or design or otherwise.