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PART NUMBER 0450L-16A ITEM NAME 450 NM LASER (DIODE; SMA PORT)

# PRODUCT DATASHEET

# ASO MO INACCORONT

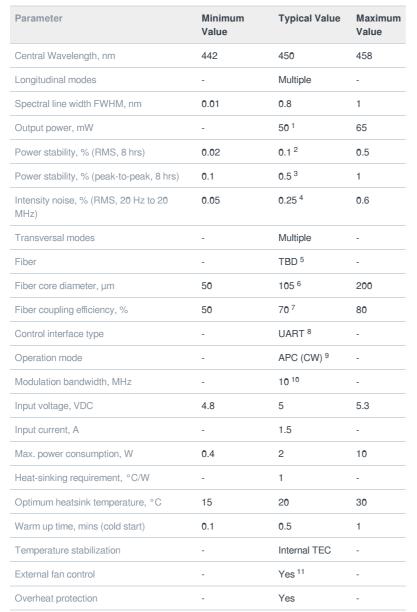
## DESCRIPTION

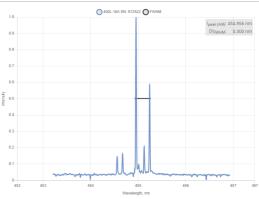
Blue 450 nm laser with SMA output is a very compact high-performance laser source for multimode fiber installations. Multimode fiber can be supplied upon request.

# SPECIFICATIONS

Specifications updated: 9 July 2021

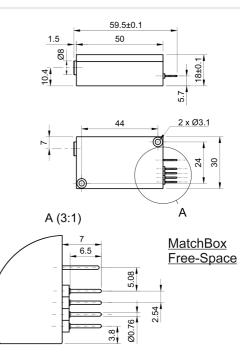
# TYPICAL SPECTRUM





Typical spectrum of 0450 nm diode laser. Measured with 10 pm resolution.

## DRAWING



Storage temperature, °C (non- condensing)	-10	-	50
Dimensions (WxDxH), mm	-	50 x 30 x 18 <sup>12</sup>	-
Net weight, kg	0.1	0.12	0.14
Laser Safety Class	-	3B	-
RoHS	-	Yes	-
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)	-
Warranty, months (op. hrs)	-	14 (10000) <sup>13</sup>	-
Country of origin	-	Lithuania	-

<sup>1</sup> 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.

 $^{2}$  The long term power test is carried out at constant laser body temperature (+/-0.1 °C) using an optical power meter with an input bandwidth of 10 Hz. The actual measurement rate has a period of about 20 seconds to 1 minute.

<sup>3</sup> The long term power test is carried out at constant laser body temperature (+/-0.1 °C) using an optical power meter with an input bandwidth of 10 Hz. The 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>Can be supplied upon request.

<sup>6</sup>Other core diameters to be discussed.

<sup>7</sup>Output power is heavily dependent on fiber insertion repeatability.

<sup>8</sup> Break-out-boxes AM-C8 and AM-C3 can be used for conversion of UART communication to either USB or RS232. <sup>9</sup> APC - Automatic Power Control.

<sup>10</sup> TTL digital modulation up to 10 MHz in automatic current control (ACC) mode. TTL modulation speed in

automatic power control (APC) is up to 1 kHz.

<sup>11</sup> This function can be enabled in hardware only if the fast modulation option is disabled. The customer must specify this before ordering the laser.

12 Excluding control interface pins and an output window/fiber assembly.

<sup>13</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.