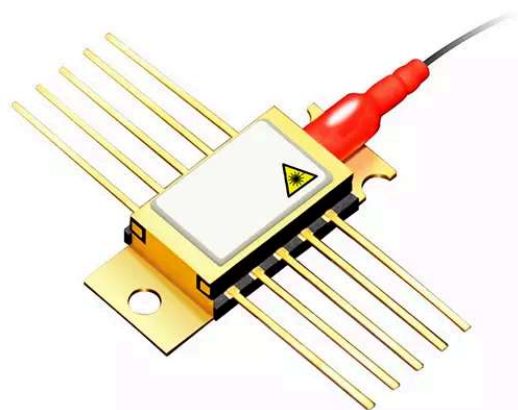


DATASHEET**Diode Lasers****PULSED 1060NM SLD TYPE HIGH POWER COOLED MINI-BUTTERFLY LASER DIODE MODULE**

The new Coherent CM96A1060CWG high power single mode laser module has been designed as a broadband compact light source for pulsed fiber lasers. Its features a compact 3-pin miniature package. The device achieves high kink free output powers of 1 W pulse peak emitting a SLD type spectrum of larger 10 nm that helps to suppress SBS generation in pulsed fiber lasers.

FEATURES AND BENEFITS

- High kink-free pulse output power, up to 1 W peak
- Curved waveguide (CWG) 1060nm laser diode
- Short pulse operation of 5ns-500ns
- Internal thermoelectric heat pump and monitor diode
- Hermetically sealed cooled 10-pin mini-butterfly package

APPLICATIONS

- Fiber lasers
- Sensing

**Coherent, Inc.**

5100 Patrick Henry Drive, Santa Clara, CA 95054
p. (800) 527-3786 | (408) 764-4983
f. (408) 764-4646

tech.sales@coherent.com www.coherent.com

Parameter	CM96A1060CWG
Fiber Bend Radius (mm)	30 (min.)
Fiber Pull Force (N)	5 (max.)
Fiber Type	Corning HI1060 or equivalent
Fiber Core Diameter (μm)	5.9
Mode Field Diameter (μm)	5.9 (typ.), 5.6 (min.), 6.2 (max.)
Buffer Diameter (μm)	245 (typ.), 235 (min.), 255 (max.)
Fiber Length (module case to fiber end) (m)	1 (min.)
Recoating Diameter (μm)	320 (max.)
Pristine Fiber Proof Test Level (kpsi)	200 (min.)
Miscellaneous	
RoHS Compliance	compliant (China RoHS 50)
Laser Safety	Class 4 Laser Product

Notes:

1. Conditions unless otherwise stated:
Case temperature: -20 to +75 °C, Submount temperature: 25 °C, Operating current 750 mA, CW operation, Lasers screened at bar-test for minimum linear current of 800 mW (corresponds to typically 500 mW linear power at bar-test)

2. Target Operating characteristics (BOL)
Conditions unless otherwise stated:
Ambient temperature 25 °C, 10 ns pulse width, 100 kHz repetition rate

3. The absolute maximum ratings are conditions for which the device is expected to recover fully the specified performance. Exceeding these limits may impair the device reliability. The ratings apply to each parameter in isolation; that is when all other parameter have values within the relevant characteristics. It cannot be assumed that limiting values of more than one parameter may be applied to a device at the same time.

4. No screen

5. At -5V bias voltage



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