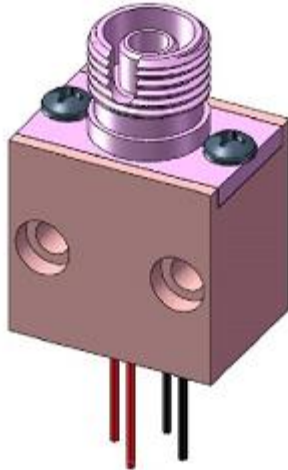


Photovoltaic Power Converter

YCH-L200

Datasheet



Key Features:

- High efficiency Si-based MIH® VMJ PV cells
- Optimized for 915nm through 980nm laser sources
- Low cost, high reliability laser diode wavelengths
- Efficiency at 1W input: ~21%
- Up to 7 volts output
- FC / ST connector available

Applications:

- Current Measurement (ECTs)
- Remote Sensors
- Power Electronics
- EMC Testing
- RF over Fiber & 5G
- Any application requiring voltage isolation, noise immunity, or light weight

Product Description

MH GoPower (MHGP) offers the only photovoltaic power converter (PPC) product line capable of delivering a wide range of power and voltage outputs. Power output levels range from tens of milliwatts to over 10 watts (higher power available upon request), while output voltage levels are possible from 4 volts to over 30 volts. MHGP's PPC product line operates most efficiently with wavelengths in the range of 900nm to 1,000nm, and with fiber with an NA of 0.22 to 0.27.

The YCH-L200 is MHGP's low power PPC offering for applications requiring power up to 0.2 watt. Device efficiencies of greater than 23% are achievable with appropriate heat sinking.

Target applications include powering remote and embedded sensors, current sensors, optical network components, as well as other applications requiring voltage isolation between the power source, and embedded electronics in high voltage or high noise environments.

Availability: FC models in stock.

Electrical Characteristics *

Optical Power (mW)	250	500	1,000
Pmax (mW)	56.2	112.9	209.9
Vmax (V)	7.2	7.1	6.6
I _{max} (mA)	7.8	15.9	31.8
Efficiency (%)	22.5%	22.6%	21.0%

* Typical converter performance with ambient temp of ~25°C

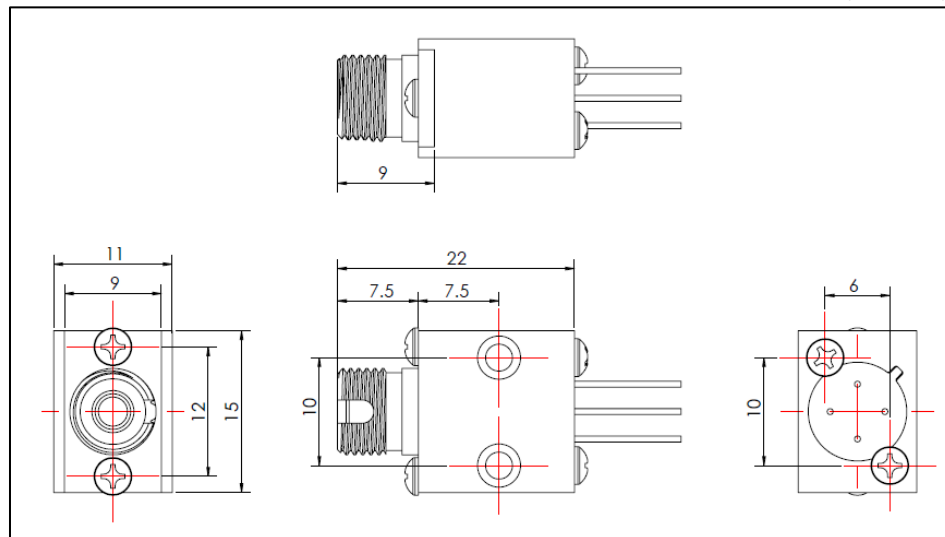
* Tested with 975 nm wavelength laser

* PPC held in free space, with no additional heatsinking, or airflow

Mechanical Dimensions

FC Connector

(unit: mm)



Net weight: 20g

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