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Laser Module

VM-0940C-080M-AL-0A0

Features

- Uniform and detail-oriented
- No stripes & No noise
- Collimated beam
- Long distance indication
- Low thermal resistance
- High power conversion efficiency

Applications

- Infrastructure alignment
- Medical and beauty application
- Indication and positioning
- Smart housing system
- Sweeping robot

Description

This product VM-0940C-080M-AL-0A0 is integrated by in-house manufactured & high-quality laser diode and is shielding with copper for better heat dissipation.

Compared with traditional frequency doubles laser and LED, it enables to provide a higher peak power and lower power consumption, low wavelength drift with temperature and good reliability. It provides narrower emission angle without optical

and thermal compensation, which allow to operate a wider range of environments.

This product with laser diodes with smallsized, light, low price, long life, low power consumption and fast frequency response.

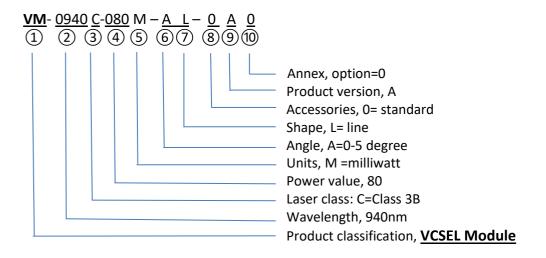
It can be applied to infrastructure alignment, positioning, indication, inspection, machine vision and other fields for ideal invisible laser source.



PRODUCT IDENTIFY

Part Number	Description
VM-0940C-080M-AL-0A0	940nm 10mm Line at 30cm Laser module

CODE RULES

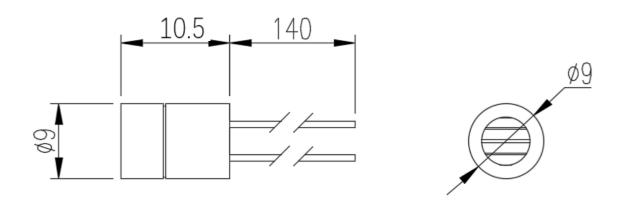




I. Specifications

Parameters	Typical values	Unit	Remarks
Wavelength	940	nm	-
Optical power	80	mW	-
Operating current	300	mA	-
Power consumption	660	mW	-
Beam emission angle	≤10	mm	@30cm
Operating voltage	DC 2.2	V	-
Storage temperature	-40 to +80	$^{\circ}$ C	-
Operating temperature	-40 to +80	$^{\circ}$ C	-
Waterproof	IP20	-	-
Dimensions	L10.5 x φ9	mm	-
Beam spot	Line with 110°	-	-
Lifetime	50000	Hrs	-
Anode	Red	-	-
Cathode	Black	-	-
Laser classification	Class 3B	-	Laser goggle when using
Weight	4.4	g	Customizable

II. Mechanic schematic



III. Laser Product Safety

The output power of this module is classified as class 3B, one can refer to IEC 60825-1:2014 《Laser Product Safety: Part 1:Devices classification, requirements and user's Manual》.



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Revision History ٧.

Revisions	Date	Description
V.01	9 July 2020	The first official version