Data sheet Z-LASER model:

Z-LASER Developer Kit Z80M18S3-F-660

Article Code: 100992510

» Red, blue, green and infrared wavelengths
» Optical output power up to 200mW
» Gaussian/uniform line and dot optics and various DOE optics included
» 5 to 30VDC supply voltage with reverse polarity protection
» All components in one case: laser + mount + power supply + optics

Mechanical specifications

Dimensions	ZM18S3 (red, infrared) 126mm; Ø 20mm (focusable version, with optic head)
Housing	M18 industry housing, chromed brass, Optic head: Anodised aluminium
IP rating	IP52 (without optic: IP31)
Electrical isolation	Potential-free housing
Connection	M12x1 plug, 4-pin

Electrical specifications

Supply voltage	5 to 30VDC
Operation mode	APC (with current limiting)
Modulation	ZM18S3: Analog intensity control and digital TTL Trigger up to 500kHz
Protection	Reverse polarity and transient protection / ESD, overtemperature protection and LED pre-failure indicator

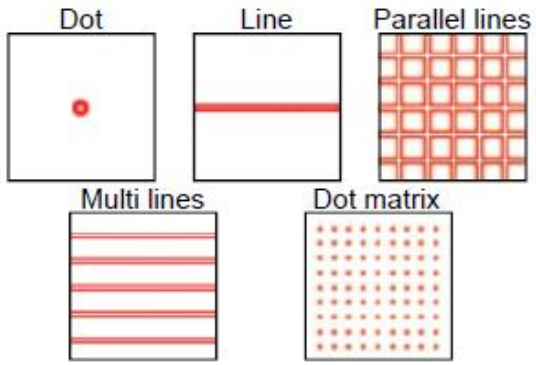
Optical specifications

Wavelength	660nm
Output power	80mW
Wavelength vs. temparature	Typ. 0.20 - 0.30nm / °C depending on wavelength
Power stability	±3% over operating temperature range
Focus range	100mm up to ∞
Pointing stability	< 15µrad / °C

Environmental specifications

Case temperature	-10°C up to +50°C (heat dissipation e.g. with mounting H8-M18)
Storage temperature	-10°C up to +80°C
Humidity	Max. 90%, non-condensing

Optics:



Optic heads:

-pe:
Elliptic point
-lg90:
Line, Gaussian distribution,
90° fan angle
-lr30:
Homogeneous line,
30° fan angle
-5L17:
5 parallel lines,
5° x 17° fan angle @635nm
-25L27:
25 parallel lines,
27° x 27° fan angle @635nm
-11x11p28:
11x11 dots,
28° x 28° fan angle @635nm
-51x51q23:
51x51 lines,
23° x 23° fan angle @635nm