

PRELIMINARY DATASHEET

HRM

Heat-Resistant Laser



DESCRIPTION

The Power Technology HRM and HRMX lasers deliver a rugged high-temperature offering to its Extreme Environment Laser Portfolio. With its reduced Size, Weight, and Power consumption compared to alternative technologies, its wider operating temperature reduces field failures, increases lifetime, and lowers costs. The modules offer multiple wavelength choices across the ultraviolet, visible, and infrared spectrum. The platform features two performance levels, one offering functionality in temperatures of up to 85 degrees Celsius (HRM) and another with operation in up to 175 degrees Celsius (HRMX) for more extreme conditions. The laser modules are available in a broad range of output powers from 2 mW to 150 mW. In addition, the modules are IP67-rated for water and dust resistance and features a sealed USB-C connector.

APPLICATIONS

- Military
- Aerospace
- Automotive
- Heavy Industrial

FEATURES & BENEFIT

- Up to 175°C Operating Temperature
- Reduced Size, Weight, and Power Consumption
- USB-C Connector
- IP67 Rating

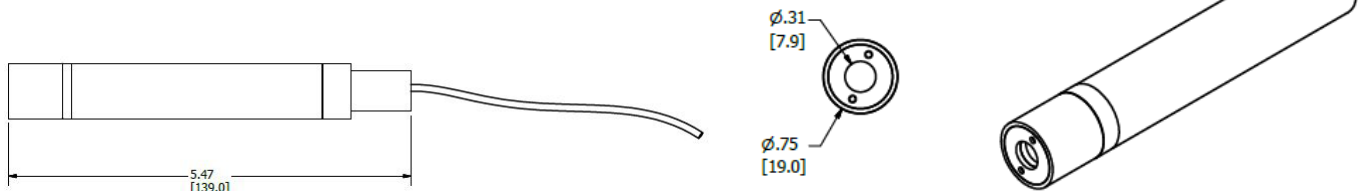
SPECIFICATIONS

HRMX Series PN:	B767	B768	B716	B717	B718
Output Power (mW)	5	50	5	2	2
Wavelength at 25°C (nm)	660	660	1300	1300	1300
Op. Temp. (°C)	15-85	15-85	15-110	15-150	15-175
Beam Diameter (mm)	1.60x4.39	1.19x2.66	TBD	TBD	TBD
Beam Divergence (mrad)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Output Power Mode*	CW	CW	CW	CW	CW
Op. Voltage (VDC)	5.0	5.0	5.0	5.0	5.0
Op. Current (mA)	20	100	110	130	130
Module Diameter (mm)	19	19	19	19	19
Module Length (mm)	139	139	139	139	139

HRM Series PN:	B704	B707	B709	B710	B711	B712	B713	B714	B715
Output Power (mW)	120	20	5	120	5	50	50	150	100
Wavelength at 25°C (nm)*	405	520	638	638	660	660	780	850	905
Op. Temp. (°C)	15-80	15-60	15-60	15-60	15-85	15-85	15-75	15-70	15-65
Beam Diameter (mm)	1.14x2.53	.92x1.86	1.46x5.32	1.06x1.83	1.60x4.39	.93x1.99	1.34x2.28	TBD	1.21x3.51
Beam Divergence (mrad)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Output Power Mode*	CW	CW	CW	CW	CW	CW	CW	CW	CW
Op. Voltage (VDC)	8.0	8.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Op. Current (mA)	100	55	15	150	20	100	80	180	150
Module Diameter (mm)	19	19	19	19	19	19	19	19	19
Module Length (mm)	139	139	139	139	139	139	139	139	139

*Typical Peak Wavelength at 25°C. Wavelength will increase at higher temperatures.

MECHANICAL DRAWINGS



SAFETY WARNINGS



COMPLIANT & REGISTERED

