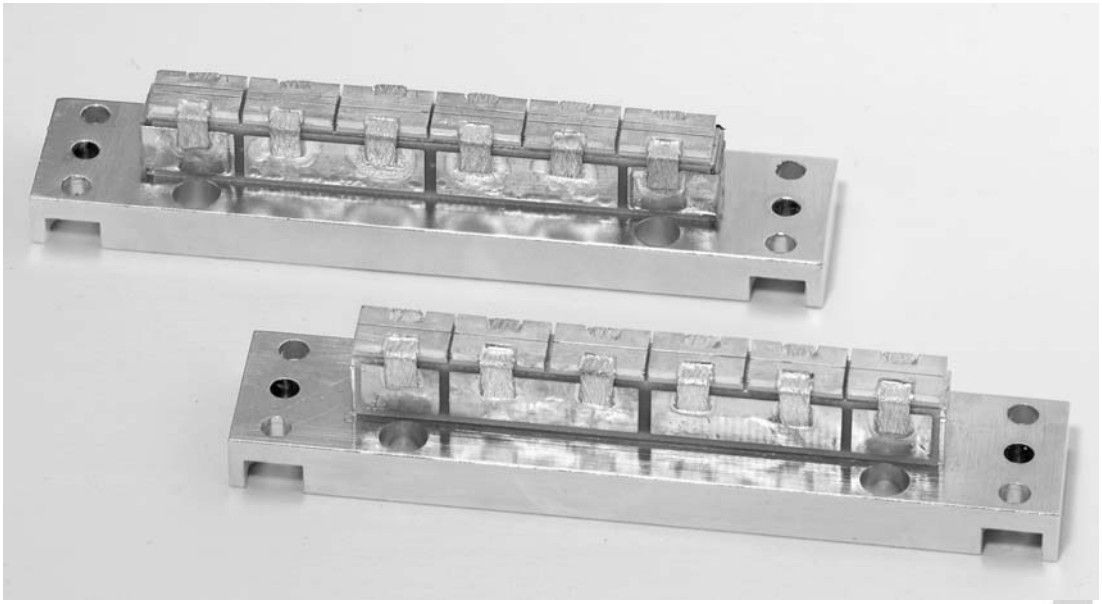
120W CW Laser Diode Array
Part Number: ARR02C120

SIX-SHOOTER®

- Packaged Laser Diode Array
- Available With Any Silver Bullet® Configuration
- Available Wavelengths (790-1550nm)



OPTICAL CHARACTERISTICS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
CW Power Output	30A at 25°C Heat Sink	120	---	---	W
Operating Current	120W at 25°C Heat Sink	---	28	30	A
Threshold Current	25°C Heat Sink	---	7.5	9.0	A
Center Wavelength	120W at 25°C Heat Sink	---	808	---	nm
Wavelength Tolerance	120W at 25°C Heat Sink	---	± 3	---	nm
Spectral Width FWHM	120W at 25°C Heat Sink	---	1.9	4.0	nm
Wavelength Shift	---	0.23	0.25	0.27	nm/°C
Beam Divergence FWHM	---	---	40x10	42x12	° x °

ELECTRICAL CHARACTERISTICS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Series Resistance	25°C Heat Sink	---	0.048	0.072	ohms
Operating Voltage	25°C Heat Sink, 120W	---	10.8	12.6	V

ABSOLUTE MAXIMUM RATINGS

PARAMETER	CONDITIONS
Forward Current	35A
Reverse Current	25µA
Reverse Voltage	3V
Operating Temperature Range (2)	-20°C or to 50°C
Storage Temperature Range	-40°C to 85°C

NOTES

(1) These specifications apply for operations at 808nm. Other wavelengths available upon request.

(2) A dry nitrogen environment should be provided by the user when storing and operating at temperatures below ambient dew point.

NORTHROP GRUMMAN

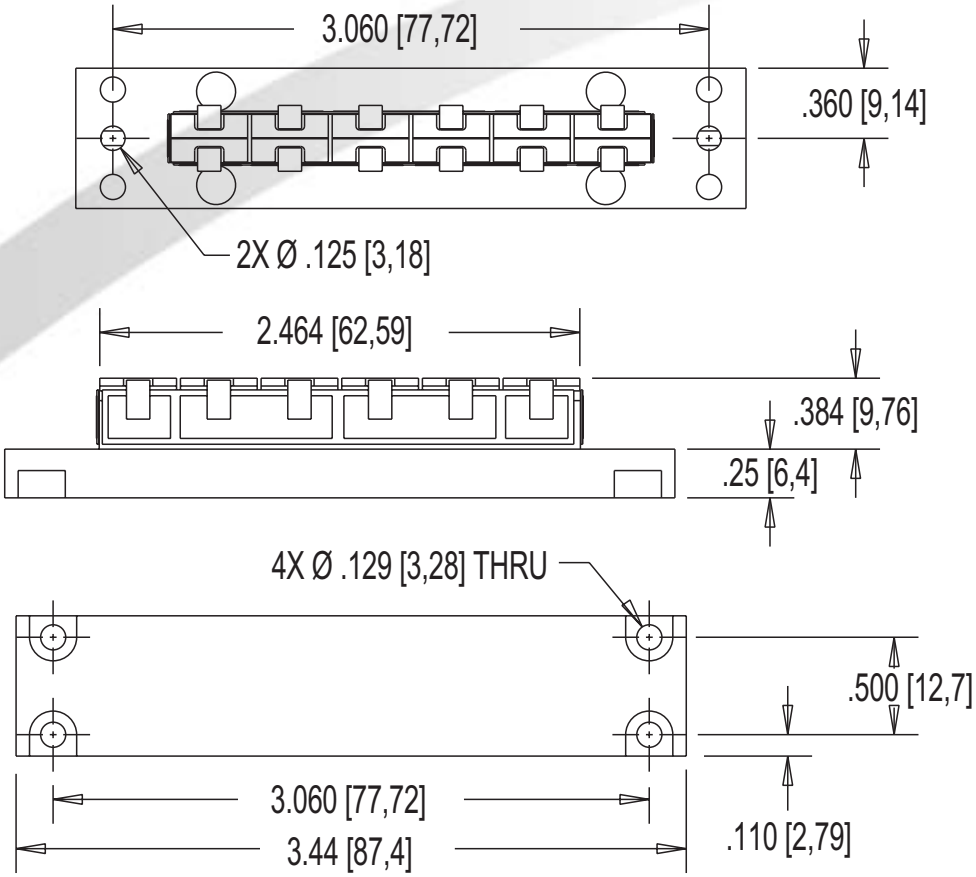
Space Technology

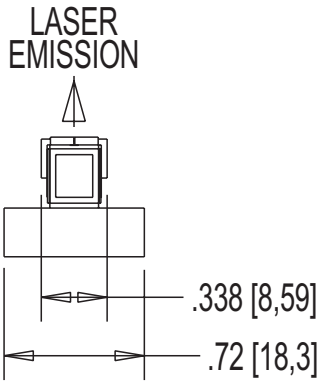
Cutting Edge Optronics

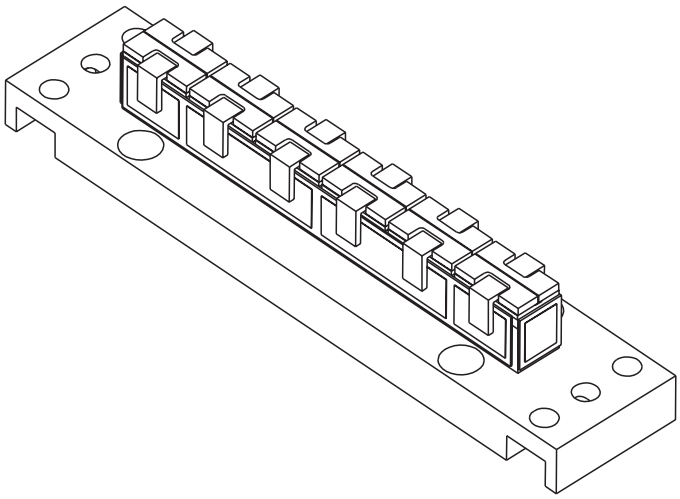
光技術をサポートする
株式会社オプトサイエンス
http://www.optoscience.com

東京本社 〒160-0014 東京都新宿区内藤町１番地 内藤町ビルディング
TEL:03(3356)1064 FAX:03(3356)3466 E-mail:info@optoscience.com
大阪支店 〒532-0011 大阪市淀川区西中島7-7-2 新大阪ビル西館
TEL:06(6305)2064 FAX:06(6305)1030 E-mail:osk@optoscience.com
名古屋営業所 〒450-0002 名古屋市中村区名駅2-37-21 東海ソフトビル
TEL:052(569)6064 FAX:052(569)8064 E-mail:ngo@optoscience.com

MECHANICAL CHARACTERISTICS







Laser diode product components are intended for use in a user-devised end system. However, these products are capable of emitting Class IV radiation. Extreme care must be exercised during their operation. Only persons familiar with the appropriate safety precautions should operate a laser product. Directly viewing the laser beam or exposure to specular reflections must be avoided. Serious injury may result if any part of the body is exposed to the beam. The eye is extremely sensitive to the infrared radiation and therefore, proper eyewear must be worn at all times. Use of optical instruments with these products may increase eye hazard. Always were proper eye protection when operating.

ISO 9001: 2000 Registered

Rev B 02/04

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20 Point West Blvd. St. Charles, MO 63301 636.916.4900 p 636.916.4994 f
www.st.northropgrumman.com/ceolaser st-ceolaser-info@ngc.com