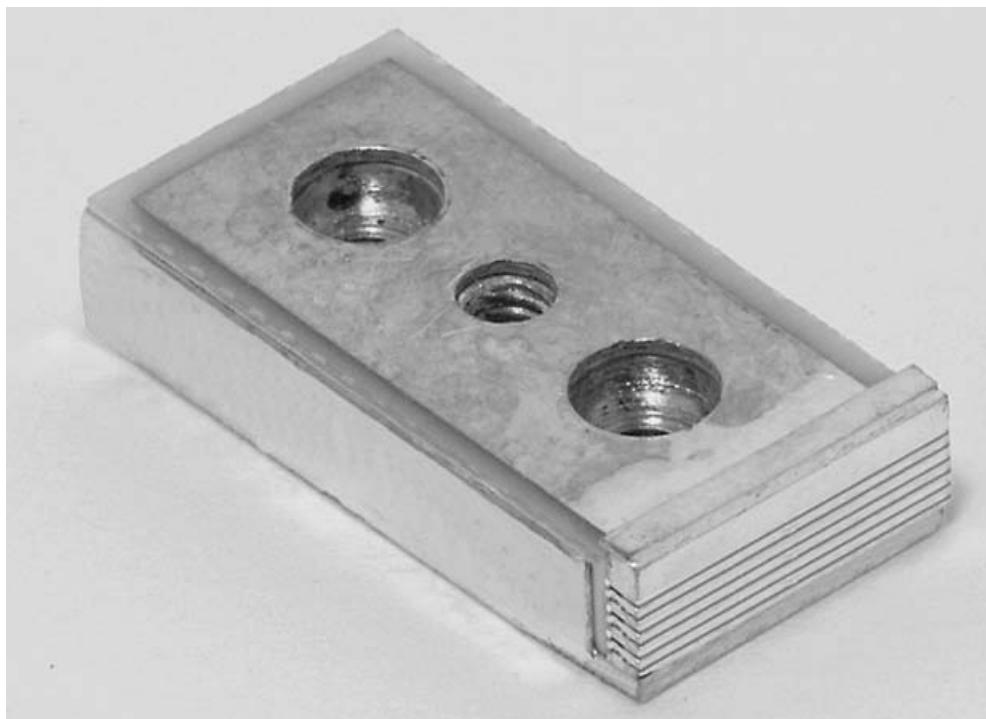


300W QCW Laser Diode Array

Part Number: ARR21P300

A PACKAGE

- Packaged 6-Bar Laser Diode Array
- Patented MicroStack™ Technology
- Available Wavelengths (790-1550nm)
- Other Powers Are Also Available



OPTICAL CHARACTERISTICS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
QCW Peak Power Output	65A, 150 μsec, 250Hz	300	---	---	W
Operating Current	300W at 25°C Heat Sink	---	60	70	A
Threshold Current	25°C Heat Sink	---	13	16	A
Center Wavelength	300W at 25°C Heat Sink	---	808	---	nm
Wavelength Tolerance	300W at 25°C Heat Sink	---	± 3	---	nm
Spectral Width FWHM	300W at 25°C Heat Sink	---	2.0	3.0	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, 300W	---	12.0	13.8	V

ABSOLUTE MAXIMUM RATINGS

PARAMETER	CONDITIONS
Forward Current	70A
Reverse Current	25μA
Reverse Voltage	3V
Operating Temperature Range ⁽²⁾	-20°C to 50°C
Storage Temperature Range	-40°C to 85°C

NOTES

- (1) These specifications apply for operation 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.

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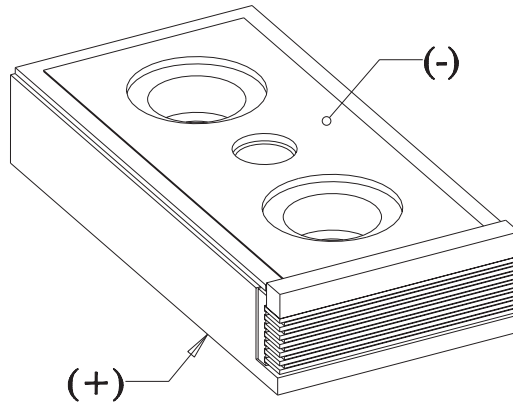
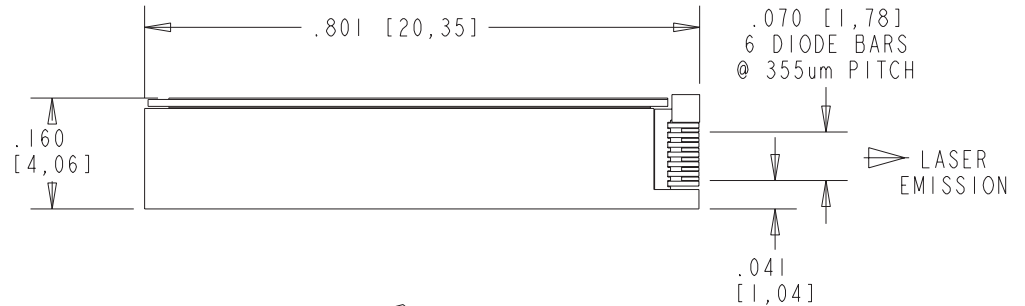
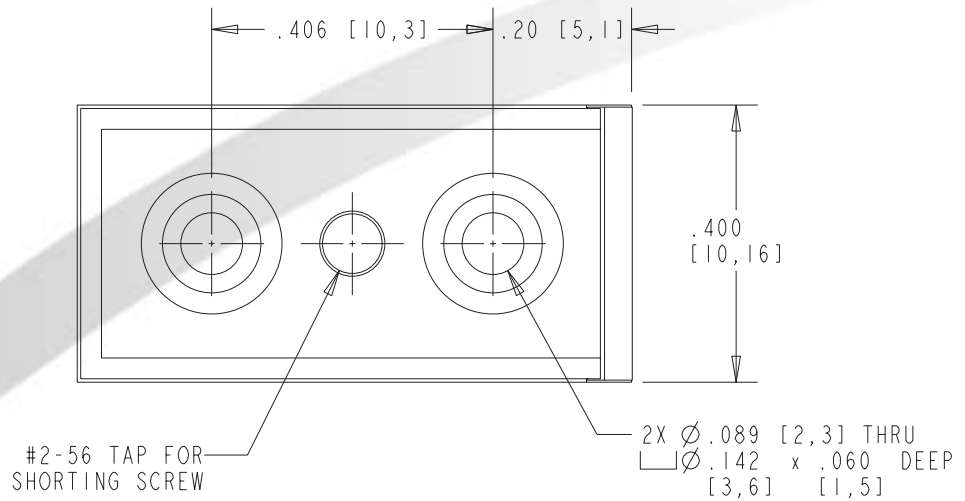
光技術をサポートする

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



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Information contained herein is believed to be reliable and accurate.

This Product is covered by one or more of the following Patents: 5,898,211 5,985,684 5,913,108 6,310,900 Other US and Foreign Patents Pending.

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 wear proper eye protection when operating.



Rev B 02/04



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