# 180W CW High Power Stacks

Part Number: MCS055

### 3-BARS

- · High Power Stack
- Available With Up To 64 Bars Per Stack
- · Available Wavelengths (790-1550nm)



# OPTICAL CHARACTERISTICS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
CW Power Output	25°C Heat Sink	180			W
Operating Current	180W at 25°C Heat Sink		68	75	Α
Threshold Current	25°C Heat Sink		13	15	Α
Center Wavelength	180W at 25°C Heat Sink		808		nm
Wavelength Tolerance	180W at 25°C Heat Sink		± 3		nm
Spectral Width FWHM	180W at 25°C Heat Sink		2.5	4.0	nm
Wavelength Shift		0.23	0.25	0.27	nm/°C
Beam Divergence FWHM (unlensed)			40x10	42x12	°x°
Beam Divergence FWHM (lensed)			0.25x10	0.5x10	°x°

ELECTRICAL CHARACTERISTICS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Series Resistance	25°C Heat Sink	6	15	21	m ohms
Operating Voltage	25°C Heat Sink		5.85	6.30	V

COOLING REQUIREMENTS

PARAMETER	CONDITIONS	UNITS
Туре	Deionized water with deionizer cartridge	
Resistivity	$0.5 \pm 0.2$	M ohms
Flow Rate	$0.30 \pm 0.06$	gpm
Pressure	minimum 40, maximum 80	psi
Particle Filter	≤ 5	μ
PH Level	$7.5 \pm 0.5$	

ABSOLUTE MAXIMUM RATINGS

PARAMETER	CONDITIONS
Reverse Current	0 A
Reverse Voltage	0 V
Operating Temperature Range (2)	15°C or to 35°C
Storage Temperature Range	-20°C to 80°C



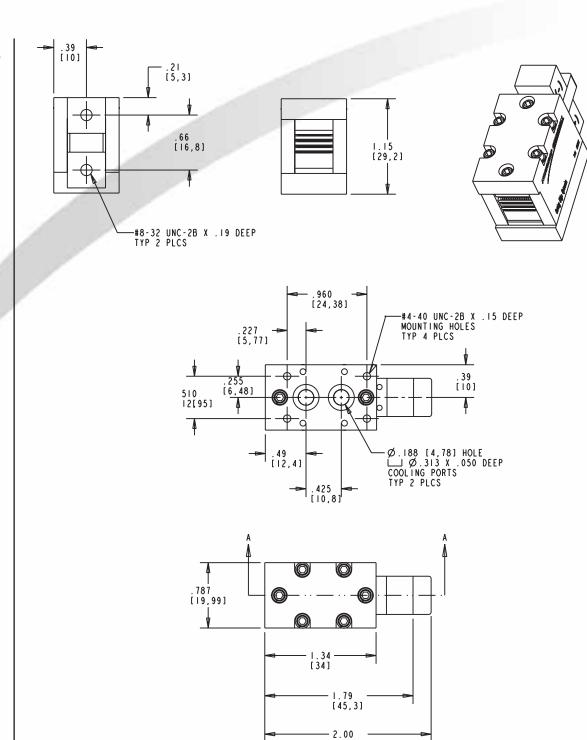
#### NOTES

- (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.



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**



Copyright © 2006 Northrop Grumman Cutting Edge Optronics All Rights Reserved. Northrop Grumman Cutting Edge Optronics reserves the right to change product design and specifications at any time without notice.

No license is granted by implication or otherwise under any patents or patent rights of Northrop Grumman Cutting Edge Optronics or others.

No responsibility is assumed for the use of these products, nor for any infringement on the rights of others resulting from the use of these products.

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,

[50,9]





