100W CW High Power Stacks Part Number: MCS056C100

1-BAR

- 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	Microchannel-cooled @ I _{op} , T _{op}	100			W
Operating Current	Microchannel-cooled @ 100W, T _{op}		110		Α
Threshold Current	Microchannel-cooled @ T _{op}		25		Α
Slope Efficiency	Microchannel-cooled @ T _{op}		1.2	//	W/A
Center Wavelength	Microchannel-cooled @ 100W, Top	790	808	815	nm
Wavelength Tolerance	Microchannel-cooled @ 100W, Top		± 3	- A-0	nm
Spectral Width (FWHM)	Microchannel-cooled @ 100W, T _{op}		3.0	/y	nm
Wavelength Shift	wrt Temperature	0.23	0.25	0.27	nm / °C
Slow Axis Beam Divergence	FWHM		10	9	°×°
Fast Axis Beam Divergence	FWHM		40	y	° x °
Lensed Fast Axis Beam Divergence	FWHM		0.25		°×°
Polarization			TE		

ELECTRICAL CHARACTERISTICS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Series Resistance	Microchannel-cooled @ 100W, T _{op}	/	3		m ohms
Operating Voltage	Microchannel-cooled @ 100W, T _{op}	/	1.8	2.1	V

COOLING **REQUIREMENTS**

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Fluid Type	Deionized Water	Deionized Water			
pH Level		7.0	7.5	8.0	
Resistivity		0.300	0.500	0.700	M ohms
Flow Rate		0.08	0.10	0.12	gpm
Inlet Pressure		40.0	45.0	80.0	psi
Particle Filter	//			5.0	μm

(1) These specifications apply for operation at 808nm. Contact CEO for wavelengths between 790 and 980 nm.





光技術をサポートする

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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

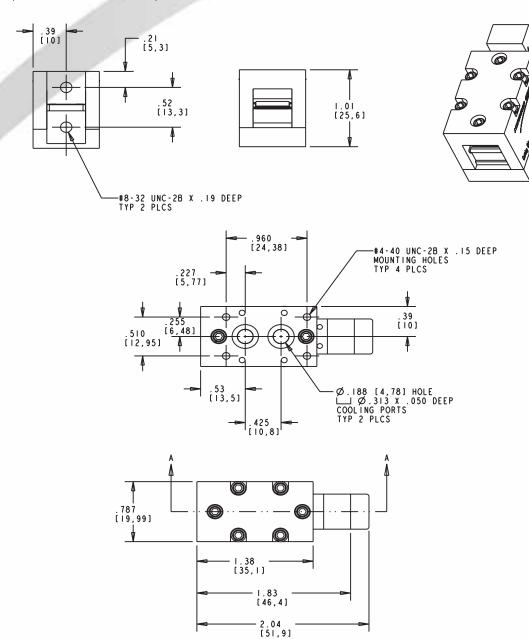
ABSOLUTE MAX **RATINGS**

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Reverse Current		0	0	0	Α
Reverse Voltage		0	0	0	V
Operating Temperature Range	Non-condensing Atmosphere	- 20	25	50	°C
Storage Temperature Range	Non-condensing Atmosphere	- 45	25	85	°C

NOTES

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

MECHANICAL CHARACTERISTICS



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eye hazard. Always were proper eye protection when operating.





