60W CW High Power Stacks Part Number: MCS056

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	25°C Heat Sink	60			W
Operating Current	60W at 25°C Heat Sink		68	75	Α
Threshold Current	25°C Heat Sink		13	15	Α
Center Wavelength	60W at 25°C Heat Sink		808		nm
Wavelength Tolerance	60W at 25°C Heat Sink		± 3		nm
Spectral Width FWHM	60W 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	2	5	7	m ohms
Operating Voltage	25°C Heat Sink		1.95	2.10	V

COOLING REQUIREMENTS

PARAMETER	CONDITIONS	UNITS
Туре	Deionized water with deionizer cartridge	
Resistivity	0.5 ± 0.2	M ohms
Flow Rate	0.10 ± 0.002	gpm
Pressure	minimum 40, maximum 80	psi
Particle Filter	≤ 5	μ
PH Level	7.5 ± 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



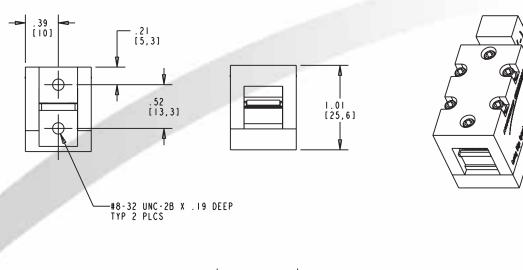
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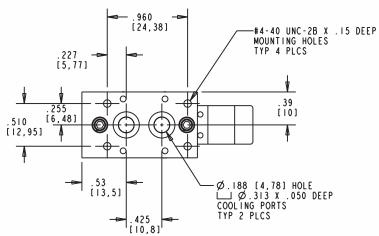
- (1) These specifications apply for operation at 808nm. Other wavelengths available upon request.
- (2) A dry nitrogen environment should be provided by the user when storing and operating at temperatures below ambient dew point.

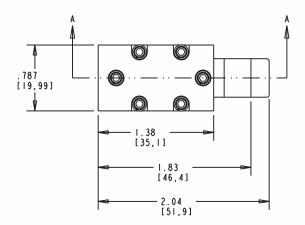


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MECHANICAL CHARACTERISTICS







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