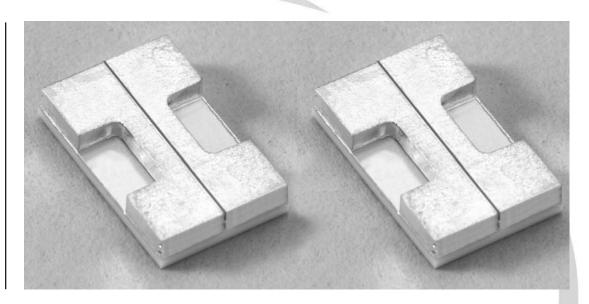
50W QCW Laser Diode Array Submodule Part Number: ASM01P050

SILVER BULLET™

- · Packaged Laser Diode Array
- · Easily Soldered to a Heat Exchanger
- Available Wavelengths (790-1550nm)



OPTICAL CHARACTERISTICS

					_
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
QCW Peak Power Output	65A, 150 µsec, 1kHz	50			W
Operating Current	50W at 25°C Heat Sink		55	65	Α
Threshold Current	25°C Heat Sink		13	16	Α
Center Wavelength	50W at 25°C Heat Sink		808		nm
Wavelength Tolerance	50W at 25°C Heat Sink		± 3		nm
Spectral Width FWHM	50W at 25°C Heat Sink		2.0	2.5	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		0.008	0.012	ohms
Operating Voltage	25°C Heat Sink, 50W		2.0	2.3	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 operaton at 808nm. Other wavelenghts 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

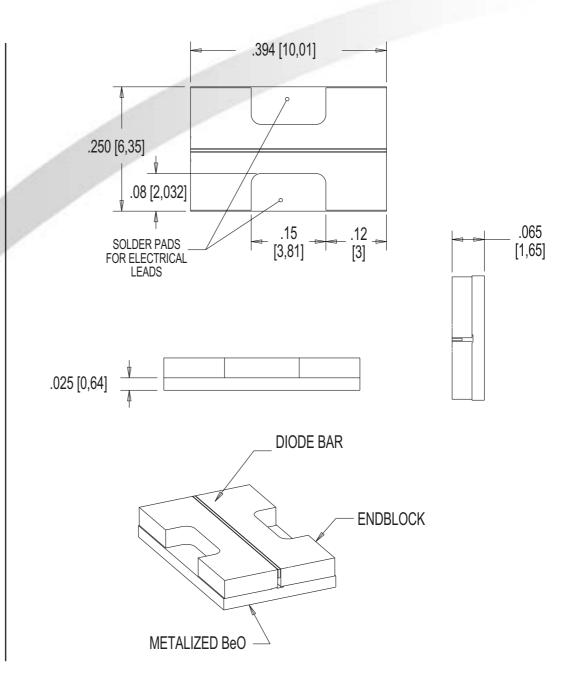
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MECHANICAL CHARACTERISTICS



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ore of the following Patents: 5,898,211 5,985,684 5,913,108 6,310,900 Other US and Foreign Patents Pending.





Rev B 02/04



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