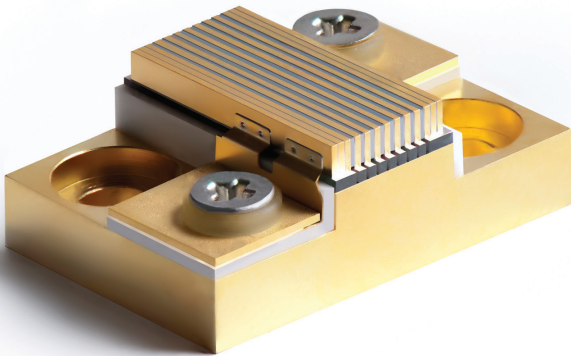


QCW LASER DIODE ARRAYS



Lasertel is the world's leading supplier of QCW laser diode arrays. Available in a broad range of conductively cooled package types, bar geometries and wavelengths, Lasertel's QCW semiconductor laser diode products are optimized for your application.

KEY FEATURES:

- Vertically integrated from wafer to assembly
 - 760nm to 1100nm
 - Up to 300W peak power per bar
 - Flexible package platform
 - 100% hard solder assemblies
 - Advanced beam conditioning
 - Spectrally broadened bar and multi-wavelength stacks
-



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Lasertel Products Proudly Made in the USA

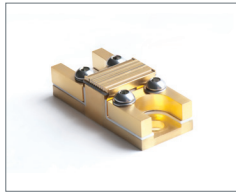
We are ISO 9001:2008, ISO 13485:2003 and AS9100C Certified.

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PACKAGE TYPES:



S1: POWER UP TO 5400W



S2: POWER UP TO 4500W



S3: POWER UP TO 6600W



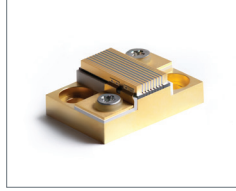
S4: POWER UP TO 2400W



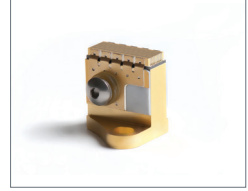
S5: POWER UP TO 900W



S6: POWER UP TO 1500W



S7: POWER UP TO 2400W



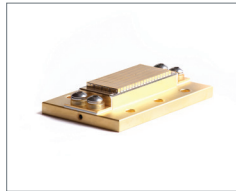
S9: POWER UP TO 2700W



S12: POWER UP TO 3600W



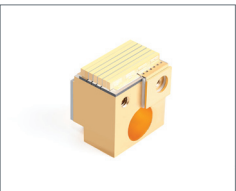
S14: POWER UP TO 7500W



S15: POWER UP TO 7500W



S16: POWER UP TO 2400W



S25: POWER UP TO 2700W



R1: POWER UP TO 300W



R5: POWER UP TO 300W

TYPICAL SPECIFICATIONS:

TYPICAL OPTICAL PARAMETERS (@25 °C)		UNITS	VALUE				
Peak Output Power per Bar		W	100	200	300	100	150
Emission Length		mm	10	10	10	3	5
Available Wavelengths		nm	760 - 1100				
Operating mode			QCW				
Cooling Type			Conductively Cooled				
Available Bar Pitch		mm	0.35, 0.40, or 1.2				
Beam Divergence							
Fast Axis (FWHM)		°	36				
Slow Axis (FWHM)		°	10				
TYPICAL ELECTRICAL PARAMETERS (@25 °C)		UNITS					
Power Conversion Efficiency		W	58	58	58	52	52
Threshold Current		A	13	20	28	10	14
Operating Current		A	95	200	330	120	165
THERMAL PARAMETERS (@25 °C)		UNITS					
Operating Temperature		°C	-30 to +70				
Storage Temperature		°C	-40 to +85				
Wavelength Coefficient		nm/°C	0.3				

Patent Numbers: US 7,660,335 | US 7,864,825 | US 6,352,873 | US 6,295,307

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