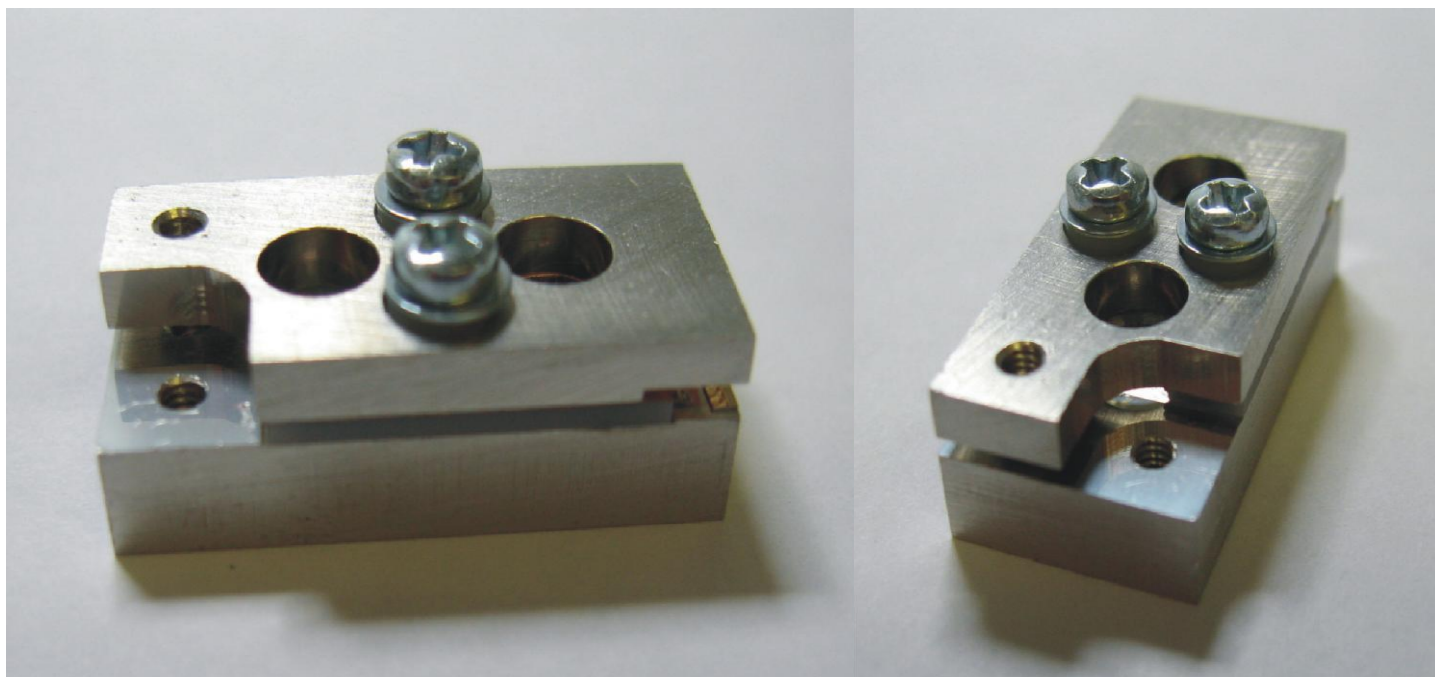


Passively Cooled QCW Diode Lasers
Opened Heatsink with up to 100W

ATC-Q100



Features:

- Very high optical output power
- High reliability
- Passively cooling

Applications:

- Pumping of solid-state lasers
- Print applications
- Medical applications

Passively Cooled QCW Diode Laser Arrays Opened Heatsink with up to 100W

Specification

Product	ATC-Q100	
Operation Mode	QCW	
Maximum Pulse Length/Duty Cycle	300 /1%	μs
Operation /Maximum Optical Output Power	100	W
Center Wavelength at 25°C	805	nm
Center Wavelength Variation at 25°C	3	nm
Typical Spectral Bandwidth (FWHM)	4	nm
Maximum Spectra Bandwidth (FWHM)	5	nm
Emitting area width	10±1	mm
Typical Operation Current	175	A
Maximum Operation Current	185	A
Typical Threshold Current	30	A
Maximum Threshold Current	35	A
Typical Slope	1.1	W/A
Minimum Slope	0.9	W/A
Maximum Operation Voltage	2.0	V
Typical Fast Axis Divergence FWHM	40°	
Typical Low Axis (FWHM)	12°	
Operation Conditions	Cleanroom class 100, non-condensing atmosphere	
Expected Lifetime	>3*10 ⁸ , under qualification	
Cooling	passively	
Mounting	Via thermally conductive foil (thickness 25...100 μm) on cooled surface (water cooled plate or TEC)	
Note	Do not mount via any paste-like media!	
Operation Temperature	+15...+40°C measured with temperature sensor in heatsink	
Dimensions	24x12x10	mm ³

