

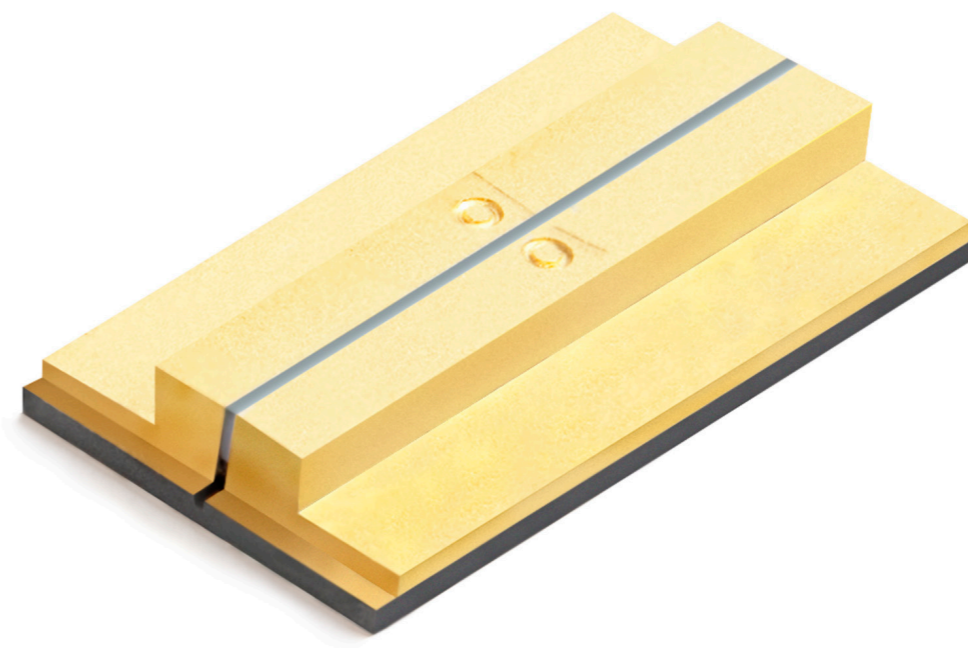
# R1

## QCW DIODE BAR

Lasertel's QCW laser diode bars are adaptable to a wide range of applications that demand superior performance and efficiency.

### WAVELENGTHS:

- ✦ 808
- ✦ 830
- ✦ 885
- ✦ 940
- ✦ 976



# R1 QCW DIODE BAR

**WAVELENGTH: 808**

TYPICAL OPTICAL PARAMETERS (@25°C)		UNITS	VALUE				
Output Power	W	100	150	200	300	100	150
Operation Mode		QCW	QCW	QCW	QCW	QCW	QCW
Emission Length	mm	10	10	10	10	3	5
Number of Bars	#	1	1	1	1	1	1
Beam Divergence							
Fast Axis (FWHM)	°	36	36	36	36	36	36
Slow Axis (FWHM)	°	10	10	10	12	12	12
TYPICAL ELECTRICAL PARAMETERS (@25°C)							
Power Conversion Efficiency	%	55	55	58	52	50	50
Threshold Current	A	13	20	20	28	10	15
Operating Current	A	95	150	190	330	100	150
Operating Voltage	V	1.9	1.9	1.9	2.1	2.1	2.1
THERMAL PARAMETERS							
Operating Temperature	°C	-30 to 70	-30 to 70	-30 to 70	-30 to 70	-30 to 70	-30 to 70
Storage Temperature	°C	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85

# R1 QCW DIODE BAR

**WAVELENGTH: 830**

TYPICAL OPTICAL PARAMETERS (@25°C)		UNITS	VALUE				
Output Power	W	100	150	200	300	100	150
Operation Mode		QCW	QCW	QCW	QCW	QCW	QCW
Emission Length	mm	10	10	10	10	3	5
Number of Bars	#	1	1	1	1	1	1
Beam Divergence							
Fast Axis (FWHM)	°	36	36	36	36	36	36
Slow Axis (FWHM)	°	10	10	10	12	12	12
TYPICAL ELECTRICAL PARAMETERS (@25°C)							
Power Conversion Efficiency	%	55	55	58	52	50	50
Threshold Current	A	13	20	20	28	10	15
Operating Current	A	95	150	190	330	100	150
Operating Voltage	V	1.9	1.9	1.9	2.1	2.1	2.1
THERMAL PARAMETERS							
Operating Temperature	°C	-30 to 70	-30 to 70	-30 to 70	-30 to 70	-30 to 70	-30 to 70
Storage Temperature	°C	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85

# R1 QCW DIODE BAR

**WAVELENGTH: 885**

TYPICAL OPTICAL PARAMETERS (@25°C)		UNITS	VALUE				
Output Power	W	100	150	200	300	100	150
Operation Mode		QCW	QCW	QCW	QCW	QCW	QCW
Emission Length	mm	10	10	10	10	3	5
Number of Bars	#	1	1	1	1	1	1
Beam Divergence							
Fast Axis (FWHM)	°	36	36	36	36	36	36
Slow Axis (FWHM)	°	10	10	10	12	12	12
TYPICAL ELECTRICAL PARAMETERS (@25°C)							
Power Conversion Efficiency	%	55	55	58	52	50	50
Threshold Current	A	13	20	20	28	10	15
Operating Current	A	95	150	190	330	100	150
Operating Voltage	V	1.9	1.9	1.9	2.1	2.1	2.1
THERMAL PARAMETERS							
Operating Temperature	°C	-30 to 70	-30 to 70	-30 to 70	-30 to 70	-30 to 70	-30 to 70
Storage Temperature	°C	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85

# R1 QCW DIODE BAR

**WAVELENGTH: 940**

TYPICAL OPTICAL PARAMETERS (@25°C)		UNITS	VALUE					
Output Power	W	100	150	200	300	100	150	
Operation Mode		QCW	QCW	QCW	QCW	QCW	QCW	
Emission Length	mm	10	10	10	10	3	5	
Number of Bars	#	1	1	1	1	1	1	
Beam Divergence								
Fast Axis (FWHM)	°	36	36	36	36	36	36	
Slow Axis (FWHM)	°	10	10	10	12	12	12	
TYPICAL ELECTRICAL PARAMETERS (@25°C)								
Power Conversion Efficiency	%	55	55	58	52	50	50	
Threshold Current	A	13	20	20	28	10	15	
Operating Current	A	95	150	190	330	100	150	
Operating Voltage	V	1.9	1.9	1.9	2.1	2.1	2.1	
THERMAL PARAMETERS								
Operating Temperature	°C	-30 to 70	-30 to 70	-30 to 70	-30 to 70	-30 to 70	-30 to 70	
Storage Temperature	°C	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85	

# R1 QCW DIODE BAR

**WAVELENGTH: 976**

TYPICAL OPTICAL PARAMETERS (@25°C)		UNITS	VALUE				
Output Power	W	100	150	200	300	100	150
Operation Mode		QCW	QCW	QCW	QCW	QCW	QCW
Emission Length	mm	10	10	10	10	3	5
Number of Bars	#	1	1	1	1	1	1
Beam Divergence							
Fast Axis (FWHM)	°	36	36	36	36	36	36
Slow Axis (FWHM)	°	10	10	10	12	12	12
TYPICAL ELECTRICAL PARAMETERS (@25°C)							
Power Conversion Efficiency	%	55	55	58	52	50	50
Threshold Current	A	13	20	20	28	10	15
Operating Current	A	95	150	190	330	100	150
Operating Voltage	V	1.9	1.9	1.9	2.1	2.1	2.1
THERMAL PARAMETERS							
Operating Temperature	°C	-30 to 70	-30 to 70	-30 to 70	-30 to 70	-30 to 70	-30 to 70
Storage Temperature	°C	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85

# R1 QCW DIODE BAR

## TECHNICAL DRAWING

DIMENSIONS IN MM

