



CC-QCW

CC-CW

VCSEL

WC-CW

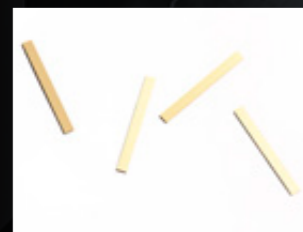
WC-QCW

SED

FCP

UNMOUNTED

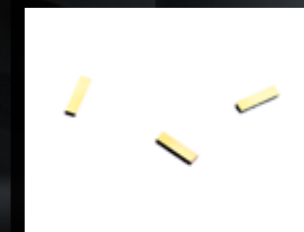
UNMOUNTED BARS & CHIPS



UNMOUNTED
BARS - CW



UNMOUNTED
BARS - QCW



UNMOUNTED
CHIPS



LT-1500 (UNMOUNTED)

CW BAR

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

WAVELENGTHS:

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





LT-1500 (UNMOUNTED) CW BAR

WAVELENGTH: 808

TYPICAL OPTICAL PARAMETERS (@25°C)	UNITS	VALUE			
Output Power	W	20	40	60	80
Operation Mode		CW	CW	CW	CW
Emission Length	mm	10	10	10	10
Polarization		TE or TM	TE or TM	TE or TM	TE or TM
Beam Divergence					
Fast Axis (FWHM)	°	36	36	36	36
Slow Axis (FWHM)	°	10	10	10	10
TYPICAL ELECTRICAL PARAMETERS (@25°C)					
Power Conversion Efficiency	%	55	55	53	50
Threshold Current	A	5	7	14	14
Operating Current	A	20	40	65	90
Operating Voltage	V	1.9	1.9	1.9	1.9
THERMAL PARAMETERS					
Operating Temperature	°C	-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





LT-1500 (UNMOUNTED) CW BAR

WAVELENGTH: 830

TYPICAL OPTICAL PARAMETERS (@25°C)	UNITS	VALUE			
Output Power	W	20	40	60	80
Operation Mode		CW	CW	CW	CW
Emission Length	mm	10	10	10	10
Polarization		TE	TE	TE	TE
Beam Divergence					
Fast Axis (FWHM)	°	36	36	36	36
Slow Axis (FWHM)	°	10	10	10	10
TYPICAL ELECTRICAL PARAMETERS (@25°C)					
Power Conversion Efficiency	%	55	55	53	50
Threshold Current	A	5	7	14	14
Operating Current	A	20	40	65	85
Operating Voltage	V	1.9	1.9	1.9	1.9
THERMAL PARAMETERS					
Operating Temperature	°C	-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





LT-1500 (UNMOUNTED) CW BAR

WAVELENGTH: 885

TYPICAL OPTICAL PARAMETERS (@25°C)	UNIT	VALUE		
Output Power	W	20	40	60
Operation Mode		CW	CW	CW
Emission Length	mm	10	10	10
Polarization		TE	TE	TE
Beam Divergence				
Fast Axis (FWHM)	°	36	36	36
Slow Axis (FWHM)	°	10	10	10
TYPICAL ELECTRICAL PARAMETERS (@25°C)				
Power Conversion Efficiency	%	55	55	55
Threshold Current	A	5	7	14
Operating Current	A	23	45	68
Operating Voltage	V	1.9	1.9	1.9
THERMAL PARAMETERS				
Operating Temperature	°C	-30 to 70	-30 to 70	-30 to 70
Storage Temperature	°C	-40 to 85	-40 to 85	-40 to 85





LT-1500 (UNMOUNTED) CW BAR

WAVELENGTH: 940

TYPICAL OPTICAL PARAMETERS (@25°C)	UNITS	VALUE		
Output Power	W	20	40	60
Operation Mode		CW	CW	CW
Emission Length	mm	10	10	10
Polarization		TE	TE	TE
Beam Divergence				
Fast Axis (FWHM)	°	36	36	36
Slow Axis (FWHM)	°	10	10	10
TYPICAL ELECTRICAL PARAMETERS (@25°C)				
Power Conversion Efficiency	%	55	55	55
Threshold Current	A	5	7	14
Operating Current	A	23	45	68
Operating Voltage	V	1.9	1.9	1.9
THERMAL PARAMETERS				
Operating Temperature	°C	-30 to 70	-30 to 70	-30 to 70
Storage Temperature	°C	-40 to 85	-40 to 85	-40 to 85





LT-1500 (UNMOUNTED) CW BAR

WAVELENGTH: 976

TYPICAL OPTICAL PARAMETERS (@25°C)	UNITS	VALUE		
Output Power	W	20	40	60
Operation Mode		CW	CW	CW
Emission Length	mm	10	10	10
Polarization		TE	TE	TE
Beam Divergence				
Fast Axis (FWHM)	°	36	36	36
Slow Axis (FWHM)	°	10	10	10
TYPICAL ELECTRICAL PARAMETERS (@25°C)				
Power Conversion Efficiency	%	55	55	55
Threshold Current	A	5	7	14
Operating Current	A	23	45	68
Operating Voltage	V	1.9	1.9	1.9
THERMAL PARAMETERS				
Operating Temperature	°C	-30 to 70	-30 to 70	-30 to 70
Storage Temperature	°C	-40 to 85	-40 to 85	-40 to 85





LT-1500 (UNMOUNTED)

QCW 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





LT-1500 (UNMOUNTED) QCW 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	20	3	5
Polarization		TE or TM	TE or TM	TE or TM	TE or TM	TE or TM	TE or TM
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	%	58	58	58	58	52	52
Threshold Current	A	13	20	20	28	10	15
Operating Current	A	95	150	190	300	100	150
Operating Voltage per Bar	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





LT-1500 (UNMOUNTED) QCW 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
Polarization		TE	TE	TE	TE	TE	TE
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	%	58	58	58	58	52	52
Threshold Current	A	13	20	20	28	10	15
Operating Current	A	95	150	190	300	100	150
Operating Voltage per Bar	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





LT-1500 (UNMOUNTED) QCW 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
Polarization		TE	TE	TE	TE	TE	TE
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	55	50	50	50
Threshold Current	A	13	20	20	28	10	15
Operating Current	A	95	150	190	300	100	150
Operating Voltage per Bar	V	1.9	1.9	2	2	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



LT-1500 (UNMOUNTED) QCW 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
Polarization		TE	TE	TE	TE	TE	TE
Beam Divergence							
Fast Axis (FWHM)	°	36	36	36	36	36	36
Slow Axis (FWHM)	°	10	10	10	10	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 per Bar	V	1.9	1.9	2	2	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





LT-1500 (UNMOUNTED) QCW BAR

WAVELENGTH: 976

TYPICAL OPTICAL PARAMETERS (@25°C)	UNITS	VALUE					
Output Power	W	100	150	200	300	200	150
Operation Mode		QCW	QCW	QCW	QCW	QCW	QCW
Emission Length	mm	10	10	10	10	3	5
Polarization		TE	TE	TE	TE	TE	TE
Beam Divergence							
Fast Axis (FWHM)	°	36	36	36	36	36	36
Slow Axis (FWHM)	°	10	10	10	10	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 per Bar	V	1.9	1.9	2	2	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



LT-1000 (UNMOUNTED) CW CHIP

Lasertel's unmounted CW chips are used worldwide in industrial, defense, medical research, digital imaging and other applications where quality, reliability, and flexibility are imperative.

WAVELENGTHS:

✦ 808

✦ 830

✦ 940

✦ 976



TECHNICAL DRAWING





LT-1000 UNMOUNTED CW CHIP

WAVELENGTH: 808

TYPICAL OPTICAL PARAMETERS (@25°C)	UNITS	VALUE								
		0.5	1	1.5	2	3	4	5	6	8
Output Power	W	0.5	1	1.5	2	3	4	5	6	8
Operation Mode		CW	CW	CW	CW	CW	CW	CW	CW	CW
Spectral Width	nm	2	2	2.5	2.5	2.5	3	3	3.5	3.5
Emitter Width	µm	32	32	32	32	32	32	32	32	32
Beam Divergence										
Fast Axis (FWHM)	°	32	32	32	32	32	32	32	32	32
Slow Axis (FWHM)	°	6	6	8	8	8	9	9	10	10
TYPICAL ELECTRICAL PARAMETERS (@25°C)										
Power Conversion Efficiency	%	55	55	50	50	50	50	50	45	45
Threshold Current	A	0.1	0.15	0.4	0.5	0.5	0.7	0.7	0.7	0.7
Operating Current	A	0.5	1.1	1.7	2.2	3.2	4.1	5.2	6.2	8.5
Operating Voltage	V	1.8	1.8	1.8	1.85	1.85	1.9	1.9	2	2
THERMAL PARAMETERS										
Operating Temperature	°C	-30 to 70	-30 to 70	-30 to 70	-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	-40 to 85	-40 to 85	-40 to 85

 TECHNICAL DRAWING



LT-1000 UNMOUNTED CW CHIP

WAVELENGTH: 830

TYPICAL OPTICAL PARAMETERS (@25°C)	UNITS	VALUE								
		0.5	1	1.5	2	3	4	5	6	8
Output Power	W	0.5	1	1.5	2	3	4	5	6	8
Operation Mode		CW	CW	CW	CW	CW	CW	CW	CW	CW
Spectral Width	nm	2	2	2.5	2.5	2.5	3	3	3.5	3.5
Emitter Width	µm	50	50	100	100	100	200	200	200	200
Beam Divergence										
Fast Axis (FWHM)	°	32	32	32	32	32	32	32	32	32
Slow Axis (FWHM)	°	6	6	8	8	8	9	9	10	10
TYPICAL ELECTRICAL PARAMETERS (@25°C)										
Power Conversion Efficiency	%	55	55	50	50	50	50	50	45	45
Threshold Current	A	0.1	0.15	0.4	0.5	0.5	0.7	0.7	0.7	0.7
Operating Current	A	0.5	1.1	1.7	2.2	3.2	4.1	5.2	6.2	8.5
Operating Voltage	V	1.8	1.8	1.8	1.85	1.85	1.9	1.9	2	2
THERMAL PARAMETERS										
Operating Temperature	°C	-30 to 70	-30 to 70	-30 to 70	-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	-40 to 85	-40 to 85	-40 to 85

 TECHNICAL DRAWING





LT-1000 UNMOUNTED CW CHIP

WAVELENGTH: 940

TYPICAL OPTICAL PARAMETERS (@25°C)	UNITS	VALUE						
Output Power	W	0.5	1	1.5	2	3	4	5
Operation Mode		CW	CW	CW	CW	CW	CW	CW
Spectral Width	nm	2	2	2.1	2.5	2.5	2.5	3
Emitter Width	µm	50	50	100	100	100	200	200
Beam Divergence								
Fast Axis (FWHM)	°	32	32	32	32	32	32	32
Slow Axis (FWHM)	°	6	6	6	8	8	9	9
TYPICAL ELECTRICAL PARAMETERS (@25°C)								
Power Conversion Efficiency	%	45	45	45	45	45	40	40
Threshold Current	A	0.1	0.15	0.5	0.5	0.5	0.7	0.7
Operating Current	A	0.6	1.2	2	2.6	3.5	5	6
Operating Voltage	V	1.8	1.8	1.8	1.85	1.85	1.9	1.9
THERMAL PARAMETERS								
Operating Temperature	°C	-30 to 70	-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	-40 to 85

 TECHNICAL DRAWING



LT-1000 UNMOUNTED CW CHIP

WAVELENGTH: 976

TYPICAL OPTICAL PARAMETERS (@25°C)	UNITS	VALUE						
Output Power	W	0.5	1	1.5	2	3	4	5
Operation Mode		CW	CW	CW	CW	CW	CW	CW
Spectral Width	nm	2	2	2.1	2.5	2.5	2.5	3
Emitter Width	µm	50	50	100	100	100	200	200
Beam Divergence								
Fast Axis (FWHM)	°	32	32	32	32	32	32	32
Slow Axis (FWHM)	°	6	6	6	8	8	9	9
TYPICAL ELECTRICAL PARAMETERS (@25°C)								
Power Conversion Efficiency	%	45	45	45	45	45	40	40
Threshold Current	A	0.1	0.15	0.5	0.5	0.5	0.7	0.7
Operating Current	A	0.6	1.2	2	2.6	3.5	5	6
Operating Voltage	V	1.8	1.8	1.8	1.85	1.85	1.9	1.9
THERMAL PARAMETERS								
Operating Temperature	°C	-30 to 70	-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	-40 to 85

 TECHNICAL DRAWING



LT-1000 UNMOUNTED CW CHIP

TECHNICAL DRAWING

DIMENSIONS IN MM

