

# LT-5500 (S7)

## QCW ARRAY

Lasertel's QCW array packages are engineered and manufactured to perform reliably and efficiently in the most demanding environments.

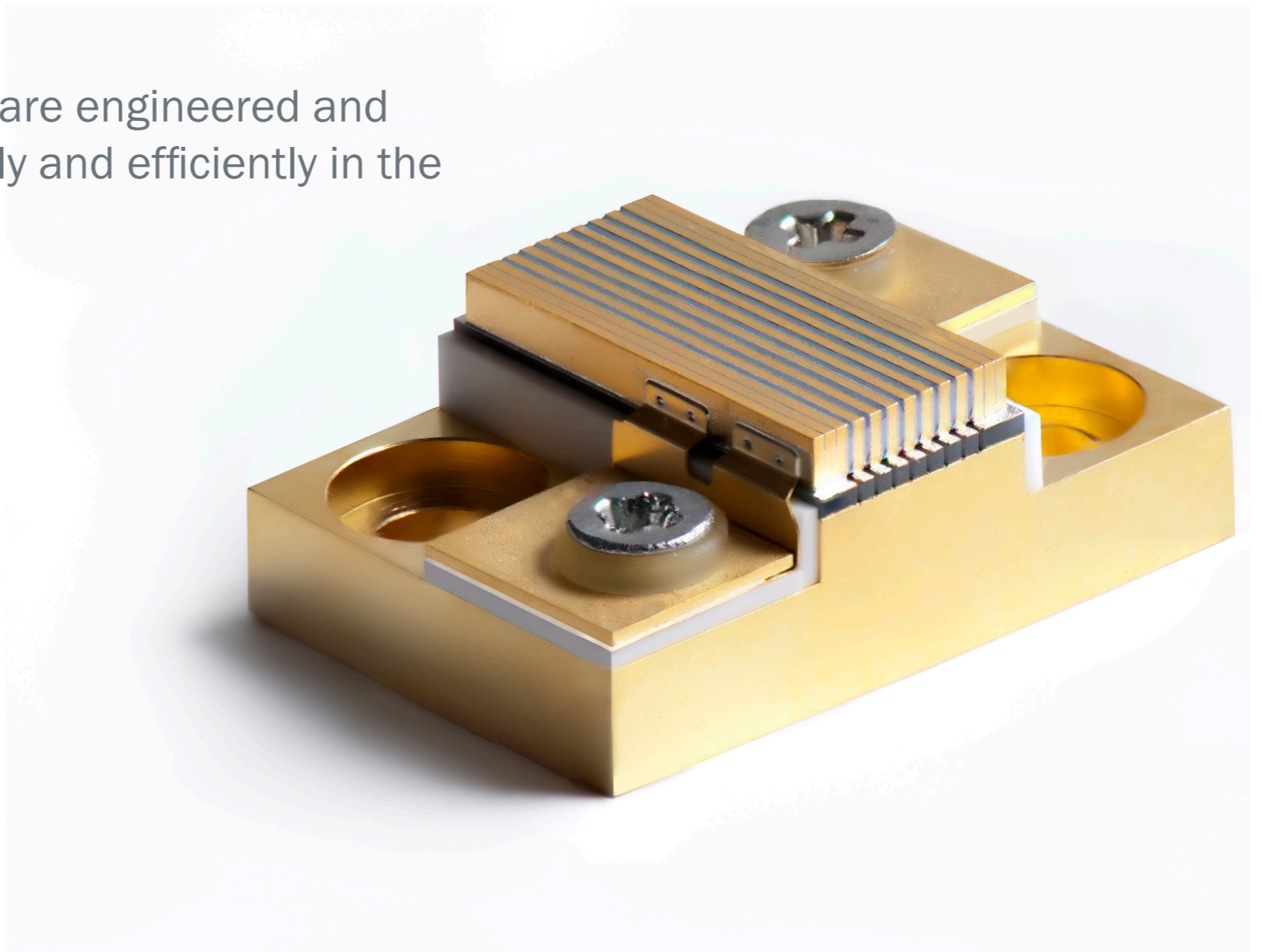
### WAVELENGTHS:

✦ 808

✦ 885

✦ 940

✦ 976



# LT-5500 (S7) QCW ARRAY

**WAVELENGTH: 808**

TYPICAL OPTICAL PARAMETERS (@25°C)		UNITS	VALUE			
Output Power per Bar	W	100	200	300	100	150
Operation Mode		QCW	QCW	QCW	QCW	QCW
Emission Length per Bar	mm	10	10	10	3	5
Number of Bars	#	2 to 8	2 to 8	2 to 8	2 to 8	2 to 8
Bar Pitch	mm	.35, .40, 1.2	.35, .40, 1.2	.35, .40, 1.2	.35, .40, 1.2	.35, .40, 1.2
Maximum Array Output Power	W	800	1600	2400	800	1200
Beam Divergence						
Fast Axis (FWHM)	°	38	38	38	38	38
Slow Axis (FWHM)	°	12	12	12	12	12
TYPICAL ELECTRICAL PARAMETERS (@25°C)						
Power Conversion Efficiency	%	50	50	50	50	50
Threshold Current	A	13	20	28	10	15
Operating Current	A	95	190	330	100	150
Operating Voltage per Bar	V	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
Storage Temperature	°C	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85

# LT-5500 (S7) QCW ARRAY

**WAVELENGTH: 885**

TYPICAL OPTICAL PARAMETERS (@25°C)		UNITS	VALUE			
Output Power per Bar	W	100	200	300	100	150
Operation Mode		QCW	QCW	QCW	QCW	QCW
Emission Length per Bar	mm	10	10	10	3	5
Number of Bars	#	2 to 8	2 to 8	2 to 8	2 to 8	2 to 8
Bar Pitch	mm	.35, .40, 1.2	.35, .40, 1.2	.35, .40, 1.2	.35, .40, 1.2	.35, .40, 1.2
Maximum Array Output Power	W	800	1600	2400	800	1200
Beam Divergence						
Fast Axis (FWHM)	°	38	38	38	38	38
Slow Axis (FWHM)	°	12	12	12	12	12
TYPICAL ELECTRICAL PARAMETERS (@25°C)						
Power Conversion Efficiency	%	55	55	50	50	50
Threshold Current	A	13	20	28	10	15
Operating Current	A	95	190	330	190	150
Operating Voltage per Bar	V	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
Storage Temperature	°C	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85

# LT-5500 (S7) QCW ARRAY

**WAVELENGTH: 940**

TYPICAL OPTICAL PARAMETERS (@25°C)		UNITS	VALUE			
Output Power per Bar	W	100	200	300	80	150
Operation Mode		QCW	QCW	QCW	QCW	QCW
Emission Length per Bar	mm	10	10	10	3	5
Number of Bars	#	2 to 8	2 to 8	2 to 8	2 to 8	2 to 8
Bar Pitch	mm	.35, .40, 1.2	.35, .40, 1.2	.35, .40, 1.2	.35, .40, 1.2	.35, .40, 1.2
Maximum Array Output Power	W	800	1600	2400	640	1200
Beam Divergence						
Fast Axis (FWHM)	°	38	38	38	38	38
Slow Axis (FWHM)	°	12	12	12	12	12
TYPICAL ELECTRICAL PARAMETERS (@25°C)						
Power Conversion Efficiency	%	55	55	50	50	50
Threshold Current	A	13	20	28	10	15
Operating Current	A	95	190	330	190	150
Operating Voltage per Bar	V	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
Storage Temperature	°C	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85

# LT-5500 (S7) QCW ARRAY

**WAVELENGTH: 976**

TYPICAL OPTICAL PARAMETERS (@25°C)		UNITS	VALUE			
Output Power per Bar	W	100	200	300	80	150
Operation Mode		QCW	QCW	QCW	QCW	QCW
Emission Length per Bar	mm	10	10	10	3	5
Number of Bars	#	2 to 8	2 to 8	2 to 8	2 to 8	2 to 8
Bar Pitch	mm	.35, .40, 1.2	.35, .40, 1.2	.35, .40, 1.2	.35, .40, 1.2	.35, .40, 1.2
Maximum Array Output Power	W	800	1600	2400	640	1200
Beam Divergence						
Fast Axis (FWHM)	°	38	38	38	38	38
Slow Axis (FWHM)	°	12	12	12	12	12
TYPICAL ELECTRICAL PARAMETERS (@25°C)						
Power Conversion Efficiency	%	55	55	50	50	50
Threshold Current	A	13	20	28	10	15
Operating Current	A	95	190	330	190	150
Operating Voltage per Bar	V	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
Storage Temperature	°C	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85

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## TECHNICAL DRAWING

DIMENSIONS IN MM

