

LT-5500 (S15)

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 (S15) 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	#	4 to 20	4 to 20	4 to 20	4 to 20	4 to 20
Bar Pitch	mm	1.2, 1.8	1.2, 1.8	1.2, 1.8	1.2, 1.8	1.2, 1.8
Maximum Array Output Power	W	2000	4000	6000	2000	3000
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

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WAVELENGTH: 885

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	#	4 to 20	4 to 20	4 to 20	4 to 20	4 to 20
Bar Pitch	mm	1.2, 1.8	1.2, 1.8	1.2, 1.8	1.2, 1.8	1.2, 1.8
Maximum Array Output Power	W	2000	4000	6000	1600	3000
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 (S15) 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	#	4 to 20	4 to 20	4 to 20	4 to 20	4 to 20
Bar Pitch	mm	1.2, 1.8	1.2, 1.8	1.2, 1.8	1.2, 1.8	1.2, 1.8
Maximum Array Output Power	W	2000	4000	6000	1600	3000
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 (S15) 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	#	4 to 20	4 to 20	4 to 20	4 to 20	4 to 20
Bar Pitch	mm	1.2, 1.8	1.2, 1.8	1.2, 1.8	1.2, 1.8	1.2, 1.8
Maximum Array Output Power	W	2000	4000	6000	1600	3000
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

