

LT-5500 (S1)

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 (S1) 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 18	4 to 18	4 to 18	4 to 18	4 to 18
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	1800	3600	5400	1800	2700
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	%	58	58	58	52	52
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	100	150
Operation Mode			QCW	QCW	QCW	QCW	QCW
Emission Length per Bar		mm	10	10	10	3	5
Number of Bars		#	4 to 18	4 to 18	4 to 18	4 to 18	4 to 18
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	1800	3600	5400	1800	2700
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 (S1) 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 18	4 to 18	4 to 18	4 to 18	4 to 18
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	1800	3600	5400	1440	2700
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 (S1) QCW ARRAY

WAVELENGTH: 976

TYPICAL OPTICAL PARAMETERS (@25°C)		UNITS	VALUE				
Output Power per Bar		W	100	200	300	80	160
Operation Mode			QCW	QCW	QCW	QCW	QCW
Emission Length per Bar		mm	10	10	10	3	5
Number of Bars		#	4 to 18	4 to 18	4 to 18	4 to 18	4 to 18
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	1800	3600	5400	1440	2880
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

