

TH-C1730-H / TH-C1840-H

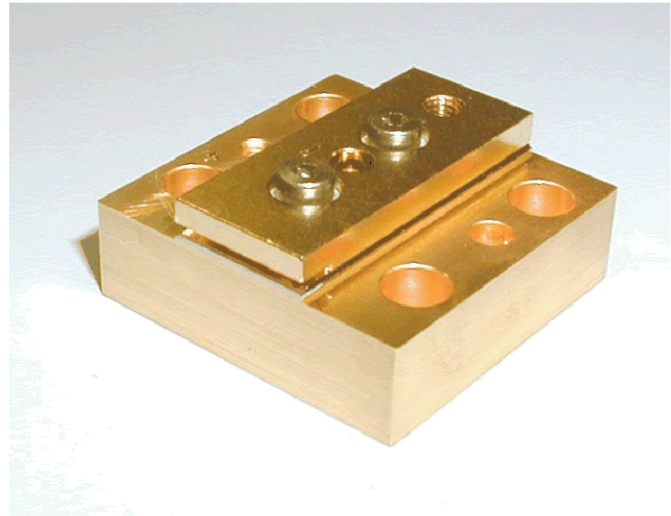
CONDUCTIVELY COOLED CW LINEAR BAR ARRAY 30W/40W, 808 nm

DESCRIPTION

The TH-C1730-H and TH-C1840-H products are based upon highly performing 30W and 40W CW Laser Diode Bar Arrays. The Laser Diode structure is multiple emitters spaced on a monolithic 1cm "bar". The bar is mounted with the active zone (P side) towards a conductively cooled submount.

The quality of new epitaxial quantum well structure and of the process leads to high electrical to optical conversion efficiency and reliability.

The conductively cooled 'H' package is designed for an easy connection to heat exchanger for efficient thermal management. This allows accurate adjustment of the wavelength for the design of efficient pumping sources.



MAIN FEATURES

- 30W & 40W CW optical power
- Low divergence
- Conductively cooled package 'H' type
- Optional collimating lens

SPECIFICATIONS

PARAMETERS	TH-C1730-H	TH-C1840-H	UNITS
CW output power	30	40	Watt
Emitting area	10 x 0.001		mm x mm
Threshold current	9	11	Amp.
Operating current	40	45	Amp.
Typical			
Max	45	50	
Operating voltage	1.9	2	Volt
Total efficiency	44	48	%
Typical			
Beam divergence (FWHM)	10 x 35		degree

Note :

- Variation of wavelength is approximately 0.25 to 0.3 nm/°C
- Tolerance on wavelength is $\pm 3\text{nm}$ @ 808nm, $\pm 5\text{nm}$ @ 840nm
- Spectral width (FWHM) is $\leq 3\text{nm}$ FWHM
- Optional fast-axis collimating lens

ABSOLUTE MAXIMUM RATINGS

PARAMETERS	TH-C1730-H	TH-C1840-H	UNITS
CW output power	32	42	Watt
Reverse voltage	3		Volt
Operating temperature	+5 to +35		°C
Storage temperature	-40 to +85		°C

Note : Operation at temperature below dew point requests to use dry N2 environment

PACKAGES SPECIFICATION

- dimensions are in mm
- standard tolerances are ± 0.2 mm

For further information please contact:

THALES LASER DIODES - Route Départementale 128 - BP 46 - 91401 ORSAY Cedex / France

Tel : (33) 1 69 33 06 61

Fax : (33) 1 69 33 06 62

E-mail : infotld@fr.thalesgroup.com

<http://www.thales-laser-diodes.com>

Information furnished is believed to be accurate and reliable. However THALES LASER DIODES assumes no responsibility for the consequences of use of such information nor for any infringement or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of THALES LASER DIODES. Specifications mentioned in this publication are subjected to change without notice. This publication supersedes and replaces all informations previously supplied. THALES LASER DIODES products are not authorized for use as critical components in life support devices or systems without express written approval from THALES LASER DIODES. © 2001 THALES LASER DIODES Printed in France All rights reserved.