

ACTIVELY COOLED 25W CW COLLIMATED LINEAR BAR ARRAY

DESCRIPTION

The TH-C1725-PO product is a highly performing 25W CW Collimated Laser Diode Bar Array assembled on a water cooled package. The Laser Diode structure is multiple emitters spaced on a monolithic 1cm "bar". The bar is mounted with the active region (P side) towards an actively cooled submount.

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

The actively cooled package has a specific design for efficient thermal management. Fast axis collimation is achieved with the adjunction of a compact optics. This product is an unique solution for flexible integrations to implement powerful solid state laser pumping, illuminators...



TH-C1725-PO (collimated)

MAIN FEATURES

- Actively cooled package
- Monolithic linear array
- 795 to 860nm wavelength range
- Highly reproducible MOCVD process
- Highly reliable product

SPECIFICATIONS

Fluid temperature : 25°C

Flow rate : 1 l/mn

PARAMETERS	TH-C1725-PO	UNITS
CW output power	25	Watt
Emitting area	10 x 0.7	mm x mm
Threshold current	9	Amp.
Operating current	40	Amp.
Operating voltage	1.95	Volt
Total efficiency	33	%
Beam divergence (FWHM)	10 x 1	degree

Note :

- Variation of wavelength is approximately 0.26 to 0.3 nm/°C
- Standard wavelength is 808nm
- Tolerance on wavelength is +/- 3nm
- Spectral width is \leq 3nm FWHM
- Other wavelength selections are available in the range of 795nm to 860nm

ABSOLUTE MAXIMUM RATINGS

PARAMETERS	TH-C1725-PO	UNITS
CW output power	27	Watt
Reverse voltage	3	Volt
Operating temperature	+5 to +35	°C
Storage temperature	-40 to +70	°C

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

PACKAGE SPECIFICATION

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

COOLING : Water

- Flow : 1 l/mn
- Pressure : 0.5 bar
- Temperature : 25 °C

For further information please contact:

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