

## ACTIVELY COOLED 25W CW COLLIMATED LINEAR BAR ARRAY

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### DESCRIPTION

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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

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- 25 W CW optical power
- Actively cooled package
- Monolithic linear array
- 795 to 860nm wavelength range
- Highly reproducible MOCVD process
- Highly reliable product

### SPECIFICATIONS

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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

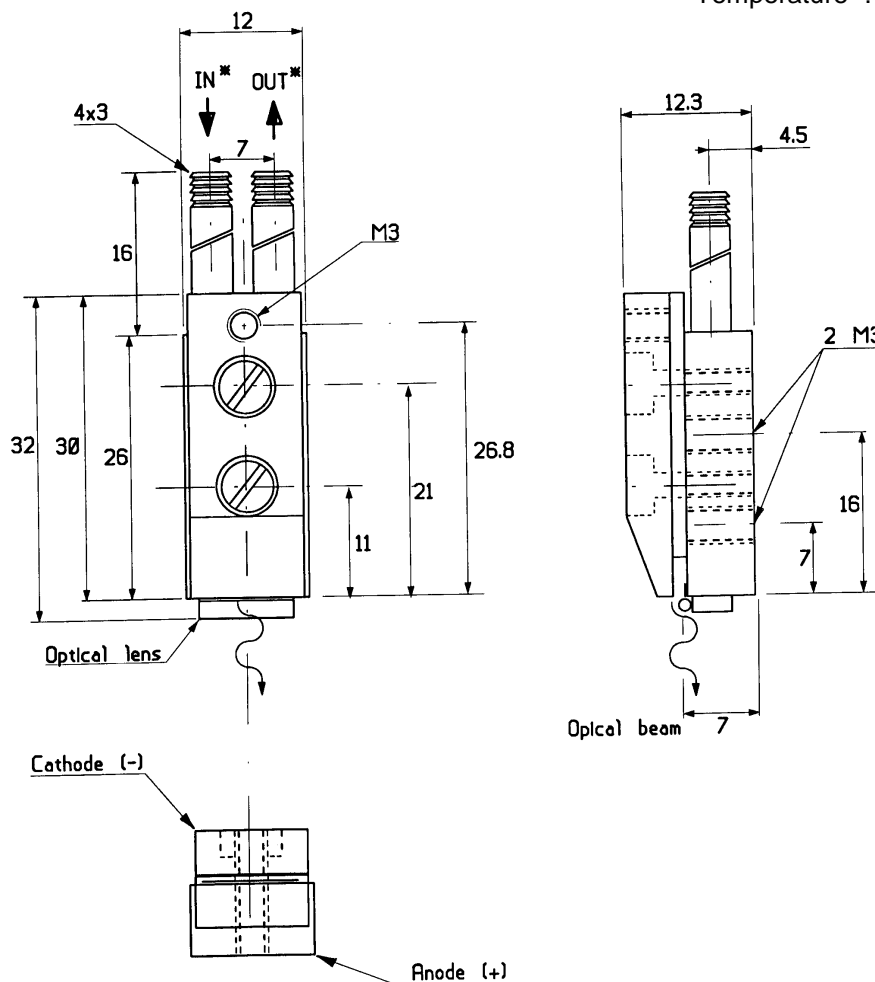
**Note :** Operation at temperature below dew point requests to use dry N2 environment

**PACKAGE SPECIFICATION :**

- dimensions are in mm
- standard tolerances are  $\pm 0.2$  mm

**COOLING :** Water

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



For further information please contact:

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