

TH-C1725-S & TH-1725-P / TH-C1730-S & TH-C1730-P

25W / 30W CW LINEAR BAR ARRAY

DESCRIPTION

The TH-C1xx-S (or P) products are highly performing 25W CW and 30W 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 the improved epitaxial quantum well structure and of the process leads to a strong increase in electrical to optical conversion efficiency and reliability.

The conductively cooled package has a specific design for efficient thermal management. This product is an unique solution to implement powerful



MAIN FEATURES

- 25 W and 30W CW optical power
- Monolithic linear array
- 795 to 860nm wavelength range
- Highly reproducible MOCVD process
- Very high conversion efficiency



SPECIFICATIONS

Case (or fluid) temperature : 25°C

PARAMETERS	TH-C1725-S TH-C1725-P	TH-C1730-S TH-C1730-P	UNITS
CW output power	25	30	Watt
Emitting area	10 x 0.001	10 x 0.001	mm x mm
Threshold current	9	9	Amp.
Operating current	34	39	Amp.
Operating voltage	1.9	1.95	Volt
Total efficiency	39 to 45	41 to 47	%
Beam divergence (FWHM)	10 x 35	10 x 35	degree

Note :

- Variation of wavelength is approximately 0.26 to 0.3 nm/°C
- Standard wavelength is 808nm
- Tolerance on wavelength is +/-4nm (+/- 3nm on request)
- Spectral width (FWHM) is \leq 3nm FWHM
- Other wavelength selections are available in the range of 795nm to 860nm

ABSOLUTE MAXIMUM RATINGS

PARAMETERS	TH-C1725-S TH-C1725-P	TH-C1730-S TH-C1730-P	UNITS
CW output power	27	32	Watt
Reverse voltage	3	3	Volt
Operating temperature	+5 to +35	+5 to +35	°C
Storage temperature	-40 to +85	-40 to +85	°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

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